

Undergraduate track program: Education and Psychology

1. Olympiad winner's skill set

To win the Olympiad, you should have a firm grasp of education and psychology concepts, namely:

- basics of social studies, biology and school mathematics;
- features of interpersonal communications;
- basics of biological and sociocultural evolution;
- basics of economics, cultural studies, political science and jurisprudence;
- basics of botany, zoology, human anatomy and physiology;
- basic tools of problem solving algorithms
- specifics of social, biological, mathematical theories, hypotheses, laws, patterns, limits of their applicability to living systems;
- methods of scientific research.

You should also have a solid command of the following skills:

- Applying basic set of research methods in social science, biology and mathematics in interdisciplinary approach;
- Identifying cause-and-effect relationships;
- Using mathematical methods in educational research;
- Making informed decisions based on morality;
- Acknowledging social responsibility.

2. List of degree programs covered by subject area

2.1. List of bachelor's programs

37.03.01 Psychology

37.03.02 Conflictology

44.03.01 Pedagogical education

44.03.02 Psychological and pedagogical education

44.03.03 Special (defectological) education

44.03.04 Vocational training (by industry)

44.03.05 Pedagogical education (with two training profiles)

2.2. List of Specialist Programs

37.05.01 Clinical psychology

37.05.02 Psychology of professional activity

44.05.01 Pedagogy and psychology of deviant behavior

3. Content

Education & Educational Research

Topics in Social Studies:

Topic 1. Systemic structure of society.

Topic 2. Social institution.

Topic 3. Multivariate social development and global problems of the 21st century.

Topic 4. Man as a subject of social relations and conscious activity.

Topic 5. Development of education; its functions as a social institution, social significance and personal meaning of education.

Topic 6. Education. Worldview, its types.

Topic 7. Knowledge of the world, its forms; types of knowledge. Truth.

Topic 8. Spiritual culture of society, its types and forms.

Topic 9. Deviant behavior and its types.

Topic 10. Social groups, youth subculture, youth policy.

Topic 11. Fundamentals of economic theory. Economic systems, their types and features of functioning.

Topics in Mathematics:

Topic 1. Algebra and the beginnings of analysis.

Numbers, roots and powers. Logarithms.

Linear, quadratic, rational, irrational, exponential, logarithmic and trigonometric equations and inequalities

Derivative and its application

Integral and its application

Topic 2. Geometry

Planimetry: triangles, quadrilaterals, circle

Stereometry: parallelism and perpendicularity, polyhedra, bodies of revolution Coordinate and vector geometry

Topic 3. Probability theories and statistics.

Elements of combinatorics, probability theory and statistics. Probabilities of events. Examples of using probability and statistics in solving applied problems.

Special Education

Topics in Biology:

Topic 1. Biology as a science. Subject and tasks of biology. Levels of organization and properties of living nature.

Topic 2. Cell as a biological system. Cellular theory of the structure of organisms. Cell structure and integrity. Cellular, chromosomal, mutation theories. Topic 3. Chemical composition of living things. Metabolism.

Topic 4. Basics of genetics. Genetic mechanisms.

Topic 5. Virus is a non-cellular form of life. Human viral diseases. Topic 6. Reproduction and development of organisms. Classification of reproduction methods. Topic 7. Heredity and variability. Basic genetic concepts. Topic 8. Diversity of life on Earth. Elements of botany and zoology.

Topic 9. The human body and its health. Human anatomy and physiology: structure and function of the body's major systems, including the nervous, endocrine, and immune systems. Human hygiene and healthy lifestyle. Basic principles of health, disease prevention and the influence of the environment on human health.

Topic 10. Evolution of living organisms.

Social Studies Topics:

Topic 1. Natural and social in man.

Topic 2. Global problems of our time and solutions.

Topic 3. Morality and law; social norms and social control; its functions and types, self-control.

Topic 4. Social conflict.

Topic 5. Trends in family development in the modern world, the problem of single-parent families, demography, ethnic communities.

Topic 6. Social inequality. Politics as a sphere of social life.

Topic 7. Rational economic behavior.

Topic 8. Functions of the state and law, their relationship. Legal status of the individual

Educational Psychology

Biology Topics:

- Topic 1. General biology. Basic concepts and principles of biology. General biological patterns.
- Topic 2. The organism as a biological system. Diversity of the organic world.
- Topic 3. Man and his health. Integrity of the human organism.
- Topic 4. The principle of connection between structure and function. Structure and functions of human organs and organ systems.
- Topic 5. Genetics - the theoretical basis of selection. Biotechnology. Genetic engineering. Cloning.
- Topic 6. Supraorganismal systems.
- Topic 7. Ecology and nature conservation.
- Topic 8. Worldview and value system in the field of environmental protection.
- Topic 9. Methods of biological research. Work with biological drugs and devices. Analysis and interpretation of biological information.

Social Studies Topics:

- Topic 1. Man as a result of biological and sociocultural evolution. Human activity.
- Topic 2. Socialization. Social norms and values.
- Topic 3. Individual, individuality. Personality as a holistic formation, a product of socio-historical development, a bearer of consciousness and self-awareness.
- Topic 4. Diversity, interconnection and mutual influence of social institutions. Value-normative foundations of the activities of social institutions. Topic 5. Social dynamics. Models of social development.
- Topic 6. Social norms and social control, social conflict.
- Topic 7. Cognitive activity. Scientific knowledge: specificity, structure. Levels of scientific knowledge.
- Topic 8. Fundamentals of the functioning of the economic, political and legal systems of society.
- Topic 9. Basic laws and patterns of development of society, features of its social, economic, political and spiritual spheres.
- Topic 10. Politics. Human rights and responsibilities.
- Topic 11. Modern information society and its impact on humans.

Applied Psychology

Topics in Biology:

- Topic 1. General biological patterns.
- Topic 2. Biological systems. Properties of living things. The cell as a structural and functional unit of living things. Cellular structure of organisms.
- Topic 3. Genetic diseases and their impact on behavior and mental state.
- Topic 4. Man and his health. The integrity of the human body, endocrine glands and their hormones; nervous and humoral regulation.
- Topic 5. Genetic diseases and their impact on behavior and mental state.
- Topic 6. Biotechnology, genetic engineering, cloning.
- Topic 7. The essence of evolution.
- Topic 8. Methods of biological research. Work with biological drugs and devices. Analysis and interpretation of biological information
- Topic 9. Biosphere and its protection.

Social Studies Topics:

- Topic 1. Society and nature, society and culture.
- Topic 2. Globalization, its processes, main directions and consequences.
- Topic 3. Directions, forms and types of social dynamics.

Topic 4. Cognitive activity. Scientific knowledge.

Topic 5. Economic activity and its measures; macroeconomic indicators; economic growth and economic development.

Topic 6. The concept of norm; technical and social norms; functions and main types of social norms.

Topic 7. Family, its functions and typology.

Topic 8. Ethics of science.

Topic 9. Concept and principles of legal status.

Psychology

Topics in Biology:

Topic 1. Methods of scientific knowledge. Structure and functions of the main cell organelles.

Topic 2. Asexual and sexual reproduction. Embryonic and postembryonic periods of ontogenesis. Individual development of organisms.

Topic 3. Evolutionary teaching. The main provisions of the theory of Charles Darwin. Driving forces of evolution: mutations, variability, natural selection.

Topic 4. Main systematic groups of organisms. Classification of living organisms.

Characteristics of the main kingdoms and types.

Topic 5. The internal environment of the body and homeostasis. Mechanisms of maintaining homeostasis.

Topic 6. Nervous system and its functions. Structure and functions of parts of the nervous system. Reflex activity of the nervous system.

Topic 7. Higher nervous activity. Conditioned and unconditioned reflexes. Consciousness and thinking.

Topic 8. Analyzers and sense organs. Structure and functions of analyzers. The importance of the sense organs for the life of the body.

Topic 9. Behavior of organisms. Congenital and acquired forms of behavior. Instincts and learning.

Topic 10. Fundamentals of ecology. Ecosystems and their components, patterns of ecosystems.

Topics in Mathematics:

Topic 1. Fundamentals of algebra. Equations and inequalities, their solutions. Systems of linear equations.

Topic 2. Functions and their properties. Linear, quadratic and exponential functions. Graphs of functions and their analysis. Topic 3. Statistics and probability. Basic concepts of statistics: mean, median, mode. Elements of probability theory, probability distributions. Topic 4. Mathematical logic. Basic logical operations and their application. Logical expressions and truth tables. Topic 5. Elements of mathematical analysis. The concept of limit and continuity of a function. Derivatives and their applications.

Topic 6. Discrete mathematics. Combinatorics and basic principles of counting. Graphs and their properties

Topic 7. Mathematical model and its application. Construction and analysis of mathematical models. Examples of application of models.

Topic 8. Basic geometric figures and their properties.

Trigonometric functions and their applications.

Topic 9. Mathematical methods. Using statistical methods to analyze data. Research models and methods.

4. Recommended references

4.1. Reading list

Education & Educational Research

Sources in Russian	Topic
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Social Studies	
<p>Боголюбов Л.Н., Лазебникова А.Ю., Иванова Л. Ф. [и др.]. Человек и общество. Обществознание. Учебник. Ч. 2. Москва: Просвещение, 2006. 194 с. URL: // http://www.cdodd.ru/storage/files/2/7360.pdf</p>	<p>Topic 1. System structure society. Topic 10. Social youth subculture, youth policy. Topic 11. Fundamentals of economic theory. Economic systems, their types And peculiarities functioning.</p>
<p>Истомина О. Б. Обществознание (право, социология, культурология): основы подготовки абитуриентов к вступительному испытанию: Учебно-методическое пособие. Иркутск : Аспринт, 2021. 210 с. URL: // https://elibrary.ru/item.asp?id=47245844</p>	<p>Topic 3. Multivariate public development and global problems of 21st century. Topic 4. Man as a subject of social relations and conscious activity. Topic 8. Spiritual culture of society, its types and forms. Topic 9. Deviant behavior and its types.</p>
<p>Касарова В. Г., Меньшова Е. П., Пронина М. Н., Дремлюгин Д. М. Обществознание : учебное пособие для иностранных учащихся подготовительного факультета. Москва: Московский автомобильно-дорожный государственный технический университет (МАДИ), 2023. 114 с. URL: // https://elibrary.ru/item.asp?id=50303724</p>	<p>Topic 3: Multivariability of social development and global problems of the XXI century. Topic 4: Man as a subject of social relations and conscious activity. Topic 5: Development of education; its functions as a social institution, social significance and personal meaning of education. Topic 8: Spiritual culture of society, its types and forms. Topic 10. Social groups, youth subculture, youth policy. Topic 11. Fundamentals of economic theory. Economic systems, their types and peculiarities of functioning.</p>
<p>Кузнецов А. Л. Обществознание: учеб. пособие для иностранных граждан подготовительного факультета. М.: МАДИ, 2019. 100 с. URL: // https://www.madi.ru/1216-elektronnaya-biblioteka-podgotovitel'nogo-fakulteta-dlya-ino.html</p>	<p>Topic 3: Multivariability of social development and global problems of the XXI century. Topic 4: Man as a subject of social relations and conscious activity. Topic 5: Development of education; its functions as a social institution, social significance and personal meaning of education. Topic 6: Education. Worldview, its types. Topic 8: Spiritual culture of society, its types and forms. Topic 10. Social groups, youth subculture, youth policy. Topic 11. Fundamentals of economic theory. Economic systems, their types and peculiarities of functioning.</p>

<p>Меньшова Е. П. Практические занятия по дисциплине «Обществознание». В 2 ч. Ч. 1. Человек и общество. Духовная и экономическая сфера. М.: МАДИ, 2018. 100 с. URL: // https://www.madi.ru/1216-elektronnaya-biblioteka-podgotovitel'nogo-fakulteta-dlya-ino.html</p>	<p>Topic 3: Multivariability of social development and global problems of the XXI century. Topic 4: Man as a subject of social relations and conscious activity. Topic 8: Spiritual culture of society, its types and forms. Topic 11. Fundamentals of economic theory. Economic systems, their types and peculiarities of functioning.</p>
<p>Шульман Р. Е., Казанова Н. В., Мельникова Е. В. [и др.]. Обществознание. Разбор тестовых заданий вступительного испытания для поступающих в ВолГТУ. Волгоград: Волгоградский государственный технический университет, 2020. 52 с. URL: // https://elibrary.ru/item.asp?id=43056375</p>	<p>Topic 1: Systemic structure of society. Topic 2: Social institution. Topic 3: Multivariability of social development and global problems of the XXI century. Topic 4: Man as a subject of social relations and conscious activity. Topic 5: Development of education; its functions as a social institution, social significance and personal meaning of education. Topic 7: Cognition of the world, its forms; types of knowledge. Truth. Topic 10. Social groups, youth subculture, youth policy. Topic 11. Fundamentals of economic theory. Economic systems, their types and peculiarities of functioning</p>
Mathematics	
<p>Гордин Р.К. Это должен знать каждый матшкольник. Москва: МЦНМО, 2021. 53 с. URL: // https://old.mccme.ru/free-books/pdf/gordin.pdf</p>	<p>Topic 2: Geometry Planimetry: triangles, quadrilaterals, circle Stereometry: parallelism and perpendicularity, polyhedra, solids of revolution Coordinate and vector geometry</p>
<p>Васильева О.Н., Ильенко Н.А., Раскина Л.С., Блинова Т.А. Методическое пособие для предварительного этапа обучения математике на русском языке как иностранном. 4-е изд., перераб. и доп. М.: МАДИ, 2018. 100 с. URL: // https://www.madi.ru/1212-elektronnaya-biblioteka-podgotovitel'nogo-fakulteta-dlya-ino.html</p>	<p>Topic 1: Algebra and Beginnings of Analysis. Numbers, roots and degrees. Logarithms. Linear, quadratic, rational, irrational, exponential, logarithmic and trigonometric equations and inequalities The derivative and its applications The integral and its applications</p>

<p>Ильенко Н.А., Васильева О.Н., Блинова Т.А. Методические указания для самостоятельной работы по математике для иностранных граждан подготовительного факультета (индивидуальные задания). – М.: МАДИ, 2017. – 116 с. URL: // https://www.madi.ru/1212-elektronnaya-biblioteka-podgotovitel'nogo-fakulteta-dlya-ino.html</p>	<p>Topic 1: Algebra and Beginnings of Analysis. Numbers, roots and degrees. Logarithms. Linear, quadratic, rational, irrational, exponential, logarithmic and trigonometric equations and inequalities The derivative and its applications The integral and its applications</p>
<p>Мерзляк А.Г. Номировский Д.А., Поляков В.М. Математика. Алгебра и начала математического анализа. 11 класс: углублённый уровень. Москва: Просвещение, 2024. 412 с. URL: // https://www.litres.ru/book/arkadiy-merzlyak/matematika-algebra-i-nachala-matematicheskogo-analiza-70523824/</p>	<p>Topic 1: Algebra and Beginnings of Analysis. Numbers, roots and degrees. Logarithms. Linear, quadratic, rational, irrational, exponential, logarithmic and trigonometric equations and inequalities The derivative and its applications The integral and its applications</p>
<p>Удалова Н.Н. Математика. Наглядный справочник для подготовки к ОГЭ и ЕГЭ. Москва: Эксмо, 2019. 304 с. URL: // https://vk.com/doc11604988_587092108</p>	<p>Topic 1: Algebra and Beginnings of Analysis. Numbers, roots and degrees. Logarithms. Linear, quadratic, rational, irrational, exponential, logarithmic and trigonometric equations and inequalities The derivative and its applications The integral and its applications Topic 2: Geometry Planimetry: triangles, quadrilaterals, circle Stereometry: parallelism and perpendicularity, polyhedra, solids of revolution Coordinate and vector geometry Topic 3: Probability Theories and Statistics. Elements of combinatorics, probability theory and statistics. Probabilities of events. Examples of the use of probability and statistics in solving applied problems.</p>
<p>Шабунин М. И. Математика: пособие для поступающих в вузы /— 7-е изд., испр. и доп. — М.: Лаборатория знаний, 2016. — 747 с. URL: // https://postypashki.ru/wp-content/uploads/2020/09/%D0%9C%D0%B0%D1%82%D0%B5%D0%BC%D0%B0%D1%82%D0%B8%D0%BA%D0%B0%D0%9F%D0%BE%D1%81%D0%BE%D0%B1%D0%B8%D0%B5_%D0%B4%D0</p>	<p>Topic 1: Algebra and Beginnings of Analysis. Numbers, roots and degrees. Logarithms. Linear, quadratic, rational, irrational, exponential, logarithmic and trigonometric equations and inequalities The derivative and its applications</p>

<p>%BB%D1%8F_%D0%BF%D0%BE%D1%81%D1%82%D1%83%D0%BF%D0%B0%D1%8E%D1%89%D0%B8%D1%85_%D0%B2_%D0%B2%D1%83%D0%B7%D1%8B_%D0%A8%D0%B0%D0%B1%D1%83%D0%BD%D0%B8%D0%BD.pdf</p>	<p>The integral and its applications Topic 2: Geometry Planimetry: triangles, quadrilaterals, circle Stereometry: parallelism and perpendicularity, polyhedra, solids of revolution Coordinate and vector geometry Topic 3: Probability Theories and Statistics. Elements of combinatorics, probability theory and statistics. Probabilities of events. Examples of the use of probability and statistics in solving applied problems.</p>
<p>Ященко И. В., Высоцкий И. Р., Забелин А. В. и др. ЕГЭ. 4000 задач с ответами по математике: все задания «Закрытый сегмент», задания 1–12 (профильный уровень), задания 1–20 (базовый уровень), все прототипы, ответы. Москва: Экзамен, 2021. 703 с. URL: // https://go.11klasov.net/3756-ege-4000-zadach-s-otvetami-po-matematike-bazovyy-i-profilnyy-urovni-zakrytyy-segment-yaschenko-iv-i-dr.html</p>	<p>Topic 1: Algebra and Beginnings of Analysis. Numbers, roots and degrees. Logarithms. Linear, quadratic, rational, irrational, exponential, logarithmic and trigonometric equations and inequalities The derivative and its applications The integral and its applications Topic 2: Geometry Planimetry: triangles, quadrilaterals, circle Stereometry: parallelism and perpendicularity, polyhedra, solids of revolution Coordinate and vector geometry Topic 3: Probability Theories and Statistics. Elements of combinatorics, probability theory and statistics. Probabilities of events. Examples of the use of probability and statistics in solving applied problems.</p>

Sources in English	Topic
<p>Social Studies Conrad Matthew. "Worldview Education: A Contemporary Expression of Freud's Hope for the Future" May 2021. 30 p. DOI: 10.13140/RG.2.2.20339.45604 URL: // https://www.researchgate.net/publication/354127075 Worldview_Education_A_Contemporary_Expression_of_Freud's_Hope_for_the_Future</p>	<p>Topic 6: Education. Worldview, its types.</p>

<p>Oparaduru John, Onyemauche John. Deviant behaviours in schools: implication for counselling. Lab: John Oparaduru's Lab March 2021 URL: // https://www.researchgate.net/publication/349693033</p>	<p>Topic 9: Deviant (deviant) behaviour and its types.</p>
<p>Rodriguez Noreen Naseem, Swalwell Katy. Social Studies for a Better World: An Anti-oppressive Approach for Elementary Educators (Equity and Social Justice in Education). W W Norton & Co Inc., 2021.233 p. URL: // https://www.cambridge.org/my/education/subject/social-studies</p>	<p>Topic 2: Social institution. Topic 8: Social relations. Spiritual sphere.</p>
<p>Spiel Christiane, Schwartzman Simon, Busemeyer Marius R.. The contribution of education to social progress Rethinking Society for the 21st Century: Report of the International Panel for Social Progress Publisher: Cambridge University Press. January 2018. 53 p. URL: // https://www.researchgate.net/publication/330579447</p>	<p>Topic 5: Development of education; its functions as a social institution, social significance and personal meaning of education.</p>
Mathematics	
<p>Manes Michelle. Mathematics for Elementary Teachers. Honolulu, HI. University of Hawai'i at Mānoa. 2018. URL: //: https://pressbooks-dev.oer.hawaii.edu/math111/</p>	<p>Topic 1: Algebra and Beginnings of Analysis. Topic 2: Geometry Topic 3: Probability Theories and Statistics.</p>
<p>Lynn Marecek, MaryAnne Anthony-Smith, Andrea Honeycutt Mathis. Algebra and Trigonometry 2e A. Proofs, Identities, and Toolkit Functions URL: //: https://openstax.org/books/algebra-and-trigonometry-2e/pages/1-1-real-numbers-algebra-essentials</p>	<p>Topic 1: Algebra and Beginnings of Analysis.</p>
<p>Rozhkovskaya N. Blue Book of Mathematics for Elementary School Teachers. Kansas State University, 2021, 167 p. URL: //: https://www.math.ksu.edu/~rozhkovs/math320_Bversion.pdf</p>	<p>Topic 1: Algebra and Beginnings of Analysis. Numbers, roots and degrees. Logarithms. Linear, quadratic, rational, irrational, exponential, logarithmic and trigonometric equations and inequalities Functions and their properties The derivative and its applications The integral and its applications</p>
<p>Thomas Hyun. Acing the New SAT Math. Greenhall Publishing Thousand OAKS, CA, 2016. 445 p. URL: //:</p>	<p>Topic 1: Algebra and Beginnings of Analysis. Topic 2: Geometry</p>

https://www.google.ru/books/edition/Acing_the_SAT_Subject_Tests_in_Math_Leve/zTqEs72RwtAC?hl=ru&gbpv=1&dq=inauthor:%22Thomas+Hyun%22&printsec=frontcover	Planimetry. Topic 3: Probability Theories and Statistics.
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Special Education

Sources in Russian	Topic
Biology	
<p>Билич Г. Л., Зигалова Е.Ю. Биология для поступающих в вузы. Москва: Издательство «Э», 2018. 784 с. Клеточная теория. URL: https://www.google.ru/books/edition/%D0%B8%D0%BE%D0%BB%D0%BE%D0%B3%D0%B8%D1%8F_%D0%B4%D0%BB%D1%8F_%D0%BF%D0%BE%D1%81%D1%82%D1%83%D0%BF%D0%B0%D1%8E/JkRbDwAAQBAJ?hl=ru&gbpv=1&dq=inauthor:%22%D0%93%D0%B0%D0%B1%D1%80%D0%B8%D1%8D%D0%BB%D1%8C+%D0%91%D0%B8%D0%BB%D0%B8%D1%87%22&printsec=frontcover</p>	<p>Topic 2: The cell as a biological system. Cellular theory of the structure of organisms. Cell structure and integrity. Cell, chromosome, mutation theories.</p>
<p>Лернер Г. И. Биология: новый полный справочник для подготовки к ЕГЭ. Москва: АСТ: Астрель, 2015. 412 с. URL: https://go.11klasov.net/1202-biologiya-2-knigi-2014-i-2010-god-polnyy-spravochnik-dlya-podgotovki-k-ege-lerner-gi.html</p>	<p>Topic 1: Biology as a science. Subject and tasks of biology. Methods of biological sciences. Levels of organization and properties of living things.</p> <p>Topic 2: The cell as a biological system. Cellular theory of the structure of organisms. Cell structure and integrity. Cell, chromosome, mutation theories.</p> <p>Topic 3: Chemical composition of living things. Metabolism.</p> <p>Topic 4: Fundamentals of genetics. Genetic mechanisms.</p> <p>Topic 5: Virus is a non-cellular life form. Viral diseases of humans.</p> <p>Topic 6: Reproduction and development of organisms. Classification of reproduction methods.</p> <p>Topic 7: Heredity and variability. Basic genetic concepts</p> <p>Biotechnology. Genetic engineering. Cloning.</p> <p>Topic 8: Diversity of living things on Earth. Elements of botany and zoology.</p> <p>Topic 9: Man and his health. Human anatomy and physiology: structure and functions of the main body systems, including nervous, endocrine and immune systems. Human hygiene and healthy lifestyle. Basic principles</p>

	<p>of health, disease prevention and environmental impact on human health.</p> <p>Topic 10. Evolution of living organisms.</p> <p>Topic 11. World outlook and value system in the field of environmental protection. Environmental factors and their influence on living organisms. Biosphere and its protection.</p>
<p>Максимов В. И., Остапенко В. А., Фомина В. Д., Ипполитова Т. В. Биология человека: Учебник / Под ред. В. И. Максимова. СПб.: Издательство «Лань», 2015.</p> <p>368 с. URL: https://www.klex.ru/11gs</p>	<p>Topic 1: Biology as a science. Subject and tasks of biology. Methods of biological sciences. Levels of organisation and properties of living things.</p> <p>Topic 6: Reproduction and development of organisms. Classification of reproduction methods.</p> <p>Topic 7: Heredity and variability. Basic genetic concepts</p> <p>Topic 9: Man and his health. Human anatomy and physiology: structure and functions of the main body systems, including nervous, endocrine and immune systems. Human hygiene and healthy lifestyle. Basic principles of health, disease prevention and environmental impact on human health.</p> <p>Topic 10. Evolution of living organisms.</p> <p>Topic 11. World outlook and value system in the field of environmental protection. Environmental factors and their influence on living organisms. Biosphere and its protection.</p>
<p>Пасечник В.В., Каменский А.А., Рубцов А.М. [и др.]. Биология. 11 класс: учеб. для общеобразоват. организаций: углубл. уровень. Москва: Просвещение, 2022. 320 с.</p> <p>URL:https://www.litres.ru/book/vladimir-pasechnik/biologiya-11-klass-uglublennyy-uroven-68292992/</p>	<p>Topic 10. Evolution of living organisms.</p> <p>Topic 11. World outlook and value system in the field of environmental protection. Ecological factors and their influence on living organisms. Biosphere and its protection.</p>
<p>Шевырёва Т.В., Соломина Е.Н. Биология. 7-9 классы. Методические рекомендации. Москва: Просвещение. 2017. 155 с. URL: https://rubskoshi1.gosuslugi.ru/netcat_files/67/2434/Shevyreva_Solomina_Biologiya_7_9kl..pdf</p>	<p>Topic 8: Diversity of living things on Earth. Elements of botany and zoology.</p> <p>Topic 9: Man and his health. Human anatomy and physiology: structure and functions of the main body systems, including nervous, endocrine and immune systems. Human hygiene and healthy lifestyle. Basic principles of health, disease prevention and environmental impact on human health.</p>
<p>Ярыгин В.Н. Биология: учебник и практикум для вузов. Москва: Издательство Юрайт, 2024. 378 с. (Высшее образование). URL: https://urait.ru/bcode/535523</p>	<p>Topic 1: Biology as a science. Subject and tasks of biology. Methods of biological sciences. Levels of organization and properties of living things.</p> <p>Topic 2: The cell as a biological system. Cellular theory of the structure of organisms.</p>

	<p>Cell structure and integrity. Cell, chromosome, mutation theories.</p> <p>Topic 3: Chemical composition of living things. Metabolism.</p> <p>Topic 10. Evolution of living organisms.</p> <p>Topic 11. World outlook and value system in the field of environmental protection. Environmental factors and their influence on living organisms. Biosphere and its protection.</p>
Social Studies	
<p>Бойченко, И. Н. Обществознание / И. Н. Бойченко. – Покров: Издательство "Саратовский источник", 2023. 156 с. URL: https://elibrary.ru/item.asp?id=54628227</p>	<p>Topic 1: Natural and social in man.</p> <p>Topic 2: Global problems of our time and ways of solving them.</p> <p>Topic 3: Morality and law; social norms and social control; its functions and types, self-control.</p> <p>Topic 4: Social Conflict.</p> <p>Topic 5: Trends of family development in the modern world, the problem of single-parent families, demography, ethnic communities.</p> <p>Topic 6: Social Inequality. Politics as a sphere of social life.</p> <p>Topic 7: Rational economic behavior.</p> <p>Topic 8: Functions of the state and law, their interrelation. Legal status of an individual.</p>
<p>Касарова В. Г., Меньшова Е. П., Пронина Д. М., Дремлюгин М. Н. Обществознание : учебное пособие для иностранных учащихся подготовительного факультета. Москва : Московский автомобильно-дорожный государственный технический университет (МАДИ), 2023. 114 с. URL: https://elibrary.ru/item.asp?id=50303724</p>	<p>Topic 1: Natural and social in man.</p> <p>Topic 2: Global problems of our time and ways of solving them.</p> <p>Topic 3: Morality and law; social norms and social control; its functions and types, self-control.</p> <p>Topic 4: Social Conflict.</p> <p>Topic 5: Trends of family development in the modern world, the problem of single-parent families, demography, ethnic communities.</p> <p>Topic 6: Social Inequality. Politics as a sphere of social life.</p> <p>Topic 7: Rational economic behavior.</p> <p>Topic 8: Functions of the state and law, their interrelation. Legal status of an individual</p>
<p>Кузнецов А. Л. Обществознание: учеб. пособие для иностранных граждан подготовительного факультета. М.: МАДИ, 2019. 100 с. URL: // https://www.madi.ru/1216-elektronnaya-biblioteka-podgotovitel'nogo-fakulteta-dlya-ino.html</p>	<p>Topic 1: Natural and social in man.</p> <p>Topic 2: Global problems of our time and ways of solving them.</p> <p>Topic 3: Morality and law; social norms and social control; its functions and types, self-control.</p> <p>Topic 4: Social Conflict.</p> <p>Topic 5: Trends of family development in the modern world, the problem of single-parent families, demography, ethnic communities.</p>

	<p>Topic 6: Social Inequality. Politics as a sphere of social life.</p> <p>Topic 7: Rational economic behavior.</p> <p>Topic 8: Functions of the state and law, their interrelation. Legal status of an individual</p>
<p>Меньшова Е. П. Практические занятия по дисциплине «Обществознание». В 2 ч. Ч. 1. Человек и общество. Духовная и экономическая сфера. М.: МАДИ, 2018. 100 с. URL: // https://www.madi.ru/1216-elektronnaya-biblioteka-podgotovitelno-fakulteta-dlya-ino.html</p>	<p>Topic 1: Natural and social in man.</p> <p>Topic 2: Global problems of our time and ways of solving them.</p> <p>Topic 3: Morality and law; social norms and social control; its functions and types, self-control.</p> <p>Topic 4: Social Conflict.</p> <p>Topic 5: Trends of family development in the modern world, the problem of single-parent families, demography, ethnic communities.</p> <p>Topic 6: Social Inequality. Politics as a sphere of social life.</p> <p>Topic 7: Rational economic behavior.</p> <p>Topic 8: Functions of the state and law, their interrelation. Legal status of an individual</p>

Sources in English	Topic
Biology	
<p>Bastawros Dr. Human Reproduction Publisher: Iowa State University Digital Press, 2023 URL: https://iastate.pressbooks.pub/humanreproduction/</p>	<p>Topic 6: Reproduction and development of organisms. Classification of reproduction methods.</p>
<p>Fowler Samantha, Roush Rebecca, Wise James. Concepts of Biology. Rice University. Houston, Texas. 2024. 615 p. URL: // https://openstax.org/details/books/concepts-biology</p>	<p>Topic 1: Biology as a science. Subject and tasks of biology. Methods of biological sciences. Levels of organization and properties of living things.</p> <p>Topic 2: The cell as a biological system. Cellular theory of the structure of organisms. Cell structure and integrity. Cell, chromosome, mutation theories.</p> <p>Topic 3: Chemical composition of living things. Metabolism.</p> <p>Topic 4: Fundamentals of genetics. Genetic mechanisms.</p> <p>Topic 5: Virus is a non-cellular life form. Viral diseases of humans.</p> <p>Topic 6: Reproduction and development of organisms. Classification of reproduction methods.</p> <p>Topic 7: Heredity and variability. Basic genetic concepts Biotechnology. Genetic engineering. Cloning.</p> <p>Topic 8: Diversity of living things on Earth. Elements of botany and zoology.</p>

	<p>Topic 9: Man and his health. Human anatomy and physiology: structure and functions of the main body systems, including nervous, endocrine and immune systems. Human hygiene and healthy lifestyle. Basic principles of health, disease prevention and environmental impact on human health.</p> <p>Topic 10. Evolution of living organisms.</p> <p>Topic 11. World outlook and value system in the field of environmental protection. Environmental factors and their influence on living organisms. Biosphere and its protection.</p>
<p>Heath Van Horn Mathew J.. Mastering Enterprise Networks. Publisher: Embry-Riddle Aeronautical University, 2024. URL: // https://eaglepubs.erau.edu/mastering-enterprise-networks-labs/front-matter/introduction/</p>	<p>Topic 7: Heredity and variability. Basic genetic concepts Biotechnology. Genetic engineering. Cloning</p>
<p>Hove Michael J. and Martinez Steven. Biological Psychology. Publisher: ROTEL, 2024 URL: // https://open.umn.edu/opentextbooks/textbooks/biological-psychology</p>	<p>Topic 1: Biology as a science. Subject and tasks of biology. Methods of biological sciences. Levels of organization and properties of living things.</p>
<p>Simons Amanda. Chromosomes, Genes, and Traits: An Introduction to Genetics. Publisher: ROTEL, 2024 URL: // https://open.umn.edu/opentextbooks/subjects/biology</p>	<p>Topic 6: Reproduction and development of organisms. Classification of reproduction methods.</p> <p>Topic 7: Heredity and variability. Basic genetic concepts Biotechnology. Genetic engineering. Cloning.</p>
Social Studies	
<p>Nichols Ryan, Charbonneau Mathieu, Chellappoo Azita and others. Cultural Evolution: A Review of Theoretical Challenges. Evolutionary Human Sciences, 2024. P. 1–25. URL: // https://www.researchgate.net/publication/378176969_Cultural_Evolution_A_Review_of_Theoretical_Challenges</p>	<p>Topic 1: Natural and social in man.</p> <p>Topic 2: Global problems of our time and ways of solving them.</p>
<p>Sharon Besser. Making Language Visible in Social Studies: A Guide to Disciplinary Literacy in the Social Studies Classroom. Ruslana Westerlund 2024. 222 p. URL: // https://www.taylorfrancis.com/books/mono/10.4324/9781003302711/making-language-visible-social-studies-sharon-besser-ruslana-westerlund</p>	<p>Topic 2: Global problems of our time and ways of solving them.</p> <p>Topic 3: Morality and law; social norms and social control; its functions and types, self-control.</p> <p>Topic 4: Social Conflict.</p> <p>Topic 5: Trends of family development in the modern world, the problem of single-parent families, demography, ethnic communities.</p> <p>Topic 6: Social Inequality. Politics as a sphere of social life.</p> <p>Topic 7: Rational economic behavior.</p>

	Topic 8: Functions of the state and law, their interrelation. Legal status of an individual
Tonja r. Conerly, Kathleen Holmes, Asha Lal Tamang, North Hennepin. Introduction to Sociology. Rice University. Houston, Texas. 2021. 653 p. URL: // https://openstax.org/details/books/introduction-sociology-3e	Topic 2: Global problems of our time and ways of solving them. Topic 3: Morality and law; social norms and social control; its functions and types, self-control. Topic 4: Social Conflict. Topic 5: Trends of family development in the modern world, the problem of single-parent families, demography, ethnic communities. Topic 6: Social Inequality. Politics as a sphere of social life. Topic 7: Rational economic behavior. Topic 8: Functions of the state and law, their interrelation. Legal status of an individual

Educational Psychology

Sources in Russian	Topic
Biology	
Билич Г. Л., Зигалова Е.Ю. Биология для поступающих в вузы. Москва: Издательство «Э», 2018. 784 с. Клеточная теория. URL: https://www.google.ru/books/edition/%D0%91%D0%B8%D0%BE%D0%BB%D0%BE%D0%B3%D0%B8%D1%8F%D0%B4%D0%BB%D1%8F%D0%BF%D0%BE%D1%81%D1%82%D1%83%D0%BF%D0%B0%D1%8E/JkRbDwAAQBAJ?hl=ru&gbpv=1&dq=inauthor:%22%D0%93%D0%B0%D0%B1%D1%80%D0%B8%D1%8D%D0%BB%D1%8C+%D0%91%D0%B8%D0%BB%D0%B8%D1%87%22&printsec=frontcover	Topic 2: Biological systems. Organism as a biological system.
Лернер Г. И. Биология: новый полный справочник для подготовки к ЕГЭ. Москва: АСТ: Астрель, 2014. 350 с. URL: https://go.11klasov.net/1202-biologiya-2-knigi-2014-i-2010-god-polnyy-spravochnik-dlya-podgotovki-k-ege-lerner-gi.html	Topic 1: General biology. Basic concepts and principles of biology. General biological laws. Levels of organization of living nature Topic 2: Biological systems. Organism as a biological system. Topic 3: Man and his health. Integrity of the human organism. Topic 4: Principle of structure-function relationship. Structure and functions of human organs and organ systems. Topic 5: Basics of heredity, genetic diseases and their influence on behavior and mental state. Genetics - theoretical basis of breeding. Topic 6: super organismal systems. Topic 7: Ecology and nature conservation.
Максимов В. И., Остапенко В. А., Фомина В. Д., Ипполитова Т. В. Биология человека:	Topic 3: Man and his health. Integrity of the human organism.

<p>Учебник / Под ред. В. И. Максимова. СПб.: Издательство «Лань», 2015. 368 с. URL: // https://www.klex.ru/11gs</p>	<p>Topic 4: Principle of structure-function relationship. Structure and functions of human organs and organ systems. Topic 5: Basics of heredity, genetic diseases and their influence on behavior and mental state. Genetics - theoretical basis of breeding. Topic 6: super organismal systems. Topic 7: Ecology and nature conservation.</p>
<p>Пасечник В.В., Каменский А.А., Рубцов А.М. [и др.]. Биология. 11 класс: учеб. для общеобразоват. организаций: углубл. уровень. Москва: Просвещение, 2022. 320 с. URL: https://www.litres.ru/book/vladimir-pasechnik/biologiya-11-klass-uglublenny-uroven-68292992/</p>	<p>Topic 6: super organismal systems. Topic 7: Ecology and nature conservation.</p>
<p>Ярыгин В.Н. Биология: учебник и практикум для вузов. Москва: Издательство Юрайт, 2024. 378 с. (Высшее образование). URL: https://urait.ru/bcode/535523</p>	<p>Topic 1: General biology. Basic concepts and principles of biology. General biological laws. Levels of organization of living nature Topic 2: Biological systems. Organism as a biological system. Topic 3: Man and his health. Integrity of the human organism. Topic 4: Principle of structure-function relationship. Structure and functions of human organs and organ systems. Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical basis of breeding. Topic 6: Superorganismal systems. Topic 7: Ecology and nature conservation.</p>
<p>Social Studies</p>	
<p>Боголюбов Л.Н., Лазебникова А.Ю., Иванова Л. Ф. Человек и общество. Обществознание. Учеб. для учащихся 10–11 кл общеобразоват. Учреждений. В 2 ч. Ч. 2. 11 кл.М.: Просвещение, 2006. 281 с. URL: // http://www.cdodd.ru/storage/files/2/7360.pdf</p>	<p>Topic 8: Fundamentals of functioning of economic, political and legal systems of society. Topic 9: Basic laws and regularities of society development, peculiarities of its social, economic, political and spiritual spheres. Topic 10. Politics. Human rights and duties. Topic 11. Modern information society and its impact on a human being.</p>
<p>Истомина, О. Б. Обществознание (право, социология, культурология): основы подготовки абитуриентов к вступительному испытанию : Учебно-методическое пособие Иркутск : Аспринт, 2021. 210 с. URL: // https://elibrary.ru/item.asp?id=47245844</p>	<p>Topic 1: Man as a result of biological and socio-cultural evolution. Human activity. Topic 2: Socialisation. Social norms and values. Topic 3: Individual, individuality. Personality as an integral formation, a product of socio-historical development, a carrier of consciousness and self-consciousness. Topic 4: Diversity, interrelation and mutual influence of social institutions. Value and normative bases of social institutions' activity. Topic 5: Social Dynamics. Models of social development.</p>

	<p>Topic 6: Social norms and social control, social conflict.</p> <p>Topic 8: Fundamentals of functioning of economic, political and legal systems of society.</p> <p>Topic 9: Basic laws and regularities of society development, peculiarities of its social, economic, political and spiritual spheres.</p> <p>Topic 10. Politics. Human rights and duties.</p>
<p>Кузнецов А. Л. Обществознание: учеб. пособие для иностранных граждан подготовительного факультета. М.: МАДИ, 2019. 100 с.</p> <p>URL: // https://www.madi.ru/1216-elektronnaya-biblioteka-podgotovitel'nogo-fakulteta-dlya-ino.html</p>	<p>Topic 1: Man as a result of biological and socio-cultural evolution. Human activity.</p> <p>Topic 2: Socialization. Social norms and values.</p> <p>Topic 3: Individual, individuality. Personality as an integral formation, a product of socio-historical development, a carrier of consciousness and self-consciousness.</p> <p>Topic 4: Diversity, interrelation and mutual influence of social institutions. Value and normative bases of social institutions' activity.</p> <p>Topic 5: Social Dynamics. Models of social development.</p> <p>Topic 6: Social norms and social control, social conflict.</p> <p>Topic 8: Fundamentals of functioning of economic, political and legal systems of society.</p> <p>Topic 9: Basic laws and regularities of society development, peculiarities of its social, economic, political and spiritual spheres.</p> <p>Topic 10. Politics. Human rights and duties.</p> <p>Topic 11. Modern information society and its impact on a human being.</p>
<p>Меньшова Е. П. Практические занятия по дисциплине «Обществознание». В 2 ч. Ч. 1. Человек и общество. Духовная и экономическая сфера. М.: МАДИ, 2018. 100 с.</p> <p>URL: // https://www.madi.ru/1216-elektronnaya-biblioteka-podgotovitel'nogo-fakulteta-dlya-ino.html</p>	<p>Topic 1: Man as a result of biological and socio-cultural evolution. Human activity.</p> <p>Topic 2: Socialisation. Social norms and values.</p> <p>Topic 3: Individual, individuality. Personality as an integral formation, a product of socio-historical development, a carrier of consciousness and self-consciousness.</p> <p>Topic 4: Diversity, interrelation and mutual influence of social institutions. Value and normative bases of social institutions' activity.</p> <p>Topic 5: Social Dynamics. Models of social development.</p> <p>Topic 6: Social norms and social control, social conflict.</p> <p>Topic 8: Fundamentals of functioning of economic, political and legal systems of society.</p> <p>Topic 9: Basic laws and regularities of society development, peculiarities of its social, economic, political and spiritual spheres.</p> <p>Topic 10. Politics. Human rights and duties.</p>

	Topic 11. Modern information society and its impact on a human being.
<p>Никифоров, Ю. С. Обществознание: Подготовка к ЕГЭ : учебное пособие / Ю. С. Никифоров, Н. А. Валева. 2-е издание, переработанное и дополненное. – Ярославль : Ярославский государственный педагогический университет им. К.Д. Ушинского, 2021. 215 с. URL: // https://elibrary.ru/item.asp?id=47268279</p>	<p>Topic 1: Man as a result of biological and socio-cultural evolution. Human activity.</p> <p>Topic 2: Socialisation. Social norms and values.</p> <p>Topic 3: Individual, individuality. Personality as an integral formation, a product of socio-historical development, a carrier of consciousness and self-consciousness.</p> <p>Topic 4: Diversity, interrelation and mutual influence of social institutions. Value and normative bases of social institutions' activity.</p> <p>Topic 5: Social Dynamics. Models of social development.</p> <p>Topic 6: Social norms and social control, social conflict.</p> <p>Topic 7: Cognitive activity. Scientific cognition: specificity, structure. Levels of scientific cognition.</p> <p>Topic 8: Fundamentals of functioning of economic, political and legal systems of society.</p> <p>Topic 9: Basic laws and regularities of society development, peculiarities of its social, economic, political and spiritual spheres.</p> <p>Topic 10. Politics. Human rights and duties.</p> <p>Topic 11. Modern information society and its impact on a human being.</p>

Sources in English	Topic
Biology	
<p>Bastawros Dr. Human Reproduction Publisher: Iowa State University Digital Press, 2023 URL: https://iastate.pressbooks.pub/humanreproduction/</p>	<p>Topic 2: Biological systems. Organism as a biological system.</p> <p>Topic 3: Man and his health. Integrity of the human organism.</p> <p>Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical basis of breeding.</p>
<p>Fowler Samantha, Roush Rebecca, Wise James. Concepts of Biology. Rice Universityet. Houston, Texas. 2024. 615 p. URL: // https://openstax.org/details/books/concepts-biology</p>	<p>Topic 1: General biology. Basic concepts and principles of biology. General biological laws. Levels of organisation of living nature</p> <p>Topic 2: Biological systems. Organism as a biological system.</p> <p>Topic 3: Man and his health. Integrity of the human organism.</p> <p>Topic 4: Principle of structure-function relationship. Structure and functions of human organs and organ systems.</p> <p>Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical basis of breeding.</p> <p>Topic 6: Superorganismal systems.</p>

	<p>Topic 7: Ecology and nature conservation.</p> <p>Topic 8: Methods of biological research. Working with biological preparations and instruments. Analysing and interpreting biological information</p>
<p>Heath Van Horn Mathew J.. Mastering Enterprise Networks. Publisher: Embry-Riddle Aeronautical University, 2024. URL: // https://eaglepubs.erau.edu/mastering-enterprise-networks-labs/front-matter/introduction/</p>	<p>Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical basis of breeding. селекции.</p>
<p>Hove Michael J. and Martinez Steven. Biological Psychology. Publisher: ROTEL, 2024 URL: // https://open.umn.edu/opentextbooks/textbooks/biological-psychology</p>	<p>Topic 1: General biology. Basic concepts and principles of biology. General biological laws. Levels of organisation of living nature.</p> <p>Topic 3: Man and his health. Integrity of the human organism.</p> <p>Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical basis of breeding.</p> <p>Topic 6: Superorganismal systems.</p> <p>Topic 7: Ecology and nature conservation.</p> <p>Topic 8: Methods of biological research. Working with biological preparations and devices. Analysing and interpreting biological information</p>
<p>Ryan Nichols, Mathieu Charbonneau, Azita Chellappoo and others. Cultural Evolution: A Review of Theoretical Challenges. Evolutionary Human Sciences, 2024. P. 1–25. URL: // https://www.cambridge.org/core/journals/evolutionary-human-sciences/article/cultural-evolution-a-review-of-theoretical-challenges/F1DAA0367EBB4F7866F9B624DB2D9BEA https://doi.org/10.1017/ehs.2024.2</p>	<p>Topic 1: General biology. Basic concepts and principles of biology. General biological laws. Levels of organisation of living nature</p> <p>Topic 2: Biological systems. Organism as a biological system.</p> <p>Topic 3: Man and his health. Integrity of the human organism.</p> <p>Topic 4: Principle of structure-function relationship. Structure and functions of human organs and organ systems.</p> <p>Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical basis of breeding.</p> <p>Topic 8: Methods of biological research. Working with biological preparations and devices. Analysing and interpreting biological information</p>
<p>Simons Amanda. Chromosomes, Genes, and Traits: An Introduction to Genetics. Publisher: ROTEL, 2024 URL: // https://open.umn.edu/opentextbooks/subjects/biology</p>	<p>Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical basis of breeding.</p> <p>Topic 6: Superorganismal systems.</p>
Social Studies	

Conrad Matthew. Worldview Education: A Contemporary Expression of Freud's Hope for the Future" May 2021. 30 p. DOI: 10.13140/RG.2.2.20339.45604 URL: // https://www.researchgate.net/publication/354127075	Topic 2: Socialisation. Social norms and values.
Ryan Nichols, Mathieu Charbonneau, Azita Chellappoo and others. Cultural Evolution: A Review of Theoretical Challenges. Evolutionary Human Sciences, 2024. P. 1–25. URL: // https://www.researchgate.net/publication/378176969 _Cultural_Evolution_A_Review_of_Theoretical_Challenges	Topic 1: Human being as a result of biological and socio-cultural development. of evolution. Human activity.
Sharon Besser. Making Language Visible in Social Studies: A Guide to Disciplinary Literacy in the Social Studies Classroom. Ruslana Westerlund 2024. 222 p. URL: // https://www.taylorfrancis.com/books/mono/10.4324/9781003302711/making-language-visible-social-studies-sharon-besser-ruslana-westerlund URL: // https://doi.org/10.4324/9781003302711	Topic 2: Systemic structure of society. Topic 3: Social institution. Topic 4: Social Dynamics. Models of social development. Topic 7: Fundamentals of economic theory. Economic systems, their types and peculiarities of functioning. Topic 8: Social relations. Spiritual sphere.
Tonja r. Conerly, Kathleen Holmes, Asha Lal Tamang, North Hennepin. Introduction to Sociology. Rice University. Houston, Texas. 2021. 653 p. URL: // https://openstax.org/details/books/introduction-sociology-3e	Topic 1: Man as a result of biological and socio-cultural evolution. Human activity. Topic 2: Socialisation. Social norms and values. Topic 5: Social dynamics. Models of society development. Topic 6: Social norms and social control, social conflict.

Applied Psychology

Sources in Russian	Topic
Biology	
Андреева А. Д. и др. Преподавание психологии в школе. 3–11 классы: учебно-методическое пособие / Российская акад. образования, Психологический ин-т, Российская акад. образования, Московский психолого-социальный ин-т; под ред. И. В. Дубровиной. - 2-е изд., испр. и доп. Москва: Московский психолого-социальный ин-т; Воронеж: НПО "МОДЭК", 2007. 798 с. URL: // https://search.rsl.ru/ru/search#q=%D0%9F%D1%80%D0%B5%D0%BF%D0%BE%D0%B4%D0%B0%D0%B2%D0%B0%D0%BD%D0%B8%D0%B5%20%D0%BF%D1%81%D0%	Topic 4: Man and his health. Integrity of the human body, glands of internal secretion and their hormones; comparison of nervous and humoral regulation.

<p>B8%D1%85%D0%BE%D0%BB%D0%BE%D0%B3%D0%B8%D1%8F%D0%B4%D0%BB%D1%8F%D0%BF%D0%BE%D1%81%D1%82%D1%83%D0%BF%D0%B0%D1%8E/JkRbDwAAQBAJ?hl=ru&gbpv=1&dq=inauthor:%22%D0%93%D0%B0%D0%B1%D1%80%D0%B8%D1%8D%D0%BB%D1%8C+%D0%91%D0%B8%D0%BB%D0%B8%D1%87%22&printsec=frontcover</p>	
<p>Билич Г. Л., Зигалова Е.Ю. Биология для поступающих в вузы. Москва: Издательство «Э», 2018. 784 с. Клеточная теория. URL: https://www.google.ru/books/edition/%D0%91%D0%B8%D0%BE%D0%BB%D0%BE%D0%B3%D0%B8%D1%8F%D0%B4%D0%BB%D1%8F%D0%BF%D0%BE%D1%81%D1%82%D1%83%D0%BF%D0%B0%D1%8E/JkRbDwAAQBAJ?hl=ru&gbpv=1&dq=inauthor:%22%D0%93%D0%B0%D0%B1%D1%80%D0%B8%D1%8D%D0%BB%D1%8C+%D0%91%D0%B8%D0%BB%D0%B8%D1%87%22&printsec=frontcover</p>	<p>Topic 2: Biological systems. Properties of living things. Cell as a structural and functional unit of living. Cellular structure of organisms.</p>
<p>Лернер Г. И. Биология: новый полный справочник для подготовки к ЕГЭ. Москва: АСТ: Астрель, 2015. 412 с. URL: https://go.11klasov.net/1202-biologiya-2-knigi-2014-i-2010-god-polnyy-spravochnik-dlya-podgotovki-k-ege-lerner-gi.html</p>	<p>Topic 1: General biological laws. Levels of organisation of living nature Topic 2: Biological systems. Properties of living things. Cell as a structural and functional unit of living. Cellular structure of organisms. Topic 3: Heredity and variability. Topic 4: Man and his health. Integrity of the human body, glands of internal secretion and their hormones; comparison of nervous and humoral regulation. Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical basis of breeding. Topic 6: Biotechnology, genetic engineering, cloning. Topic 7: The essence of evolution. Topic 8: Methods of biological research. Working with biological preparations and instruments. Analysing and interpreting biological information</p>
<p>Максимов В. И., Остапенко В. А., Фомина В. Д., Ипполитова Т. В. Биология человека: Учебник / Под ред. В. И. Максимова. СПб.: Издательство «Лань», 2015. 368 с. URL: https://www.klex.ru/11gs</p>	
<p>Шевырёва Т.В., Соломина Е.Н. Биология. 7-9 классы. Методические рекомендации. Москва: Просвещение. 2017. 155 с. URL: https://rubskoshi1.gosuslugi.ru/netcat_files/67/2434/Shevyreva_Solomina_Biologiya_7_9kl..pdf</p>	<p>Topic 3: Heredity and variability. Topic 4: Man and his health. Integrity of the human body, glands of internal secretion and their hormones; comparison of nervous and humoral regulation.</p>

	Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical basis of breeding.
Ярыгин В.Н. Биология: учебник и практикум для вузов. Москва: Издательство Юрайт, 2024. 378 с. (Высшее образование). URL: https://urait.ru/bcode/535523	Topic 1: General biological laws. Levels of organisation of living nature Topic 2: Biological systems. Properties of living things. Cell as a structural and functional unit of living. Cellular structure of organisms. Topic 3: Heredity and variability. Topic 4: Man and his health. Integrity of the human body, glands of internal secretion and their hormones; comparison of nervous and humoral regulation. Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical basis of breeding. Topic 6: Biotechnology, genetic engineering, cloning. Topic 7: The essence of evolution.
Social Studies	
Боголюбов Л.Н., Лазебникова А.Ю., Иванова Л. Ф. [и др.]. Человек и общество. Обществознание. Учебник. Ч. 2. Москва: Просвещение, 2006. 194 с. URL: // http://www.cdodd.ru/storage/files/2/7360.pdf	Topic 1: Society and Nature, Society and Culture. Topic 2: Globalisation, its processes, main directions and consequences. Topic 3: Directions, forms and types of social dynamics. Topic 4: Cognitive activity. Scientific cognition. Topic 5: Economic activity and its measures; macroeconomic indicators; economic growth and economic development. Topic 6: The concept of norms; technical and social norms; functions and main types of social norms. Topic 7: Family, its functions and typology. Topic 8: Ethics of science. Topic 9: The concept and principles of legal status.
Бойченко, И. Н. Обществознание / И. Н. Бойченко. – Покров: Издательство "Саратовский источник", 2023. 156 с. URL: https://elibrary.ru/item.asp?id=54628227	Topic 1: Society and Nature, Society and Culture. Topic 2: Globalisation, its processes, main directions and consequences. Topic 3: Directions, forms and types of social dynamics. Topic 4: Cognitive activity. Scientific cognition. Topic 5: Economic activity and its measures; macroeconomic indicators; economic growth and economic development.

	<p>Topic 6: The concept of norms; technical and social norms; functions and main types of social norms.</p> <p>Topic 7: Family, its functions and typology.</p> <p>Topic 8: Ethics of science.</p> <p>Topic 9: The concept and principles of legal status.</p>
<p>Истомина О. Б. Обществознание (право, социология, культурология): основы подготовки абитуриентов к вступительному испытанию: Учебно-методическое пособие. Иркутск : Аспринт, 2021. 210 с. URL: //https://elibrary.ru/item.asp?id=47245844</p>	<p>Topic 1: Society and Nature, Society and Culture.</p> <p>Topic 2: Globalisation, its processes, main directions and consequences.</p> <p>Topic 3: Directions, forms and types of social dynamics.</p> <p>Topic 6: The concept of norms; technical and social norms; functions and main types of social norms.</p> <p>Topic 8: Ethics of science.</p>
<p>Касарова В. Г., Меньшова Е. П., Пронина М. Н., Дремлюгин Д. М. Обществознание : учебное пособие для иностранных учащихся подготовительного факультета. Москва: Московский автомобильно-дорожный государственный технический университет (МАДИ), 2023. 114 с. URL: // https://elibrary.ru/item.asp?id=50303724</p>	<p>Topic 1: Society and Nature, Society and Culture.</p> <p>Topic 2: Globalisation, its processes, main directions and consequences.</p> <p>Topic 3: Directions, forms and types of social dynamics.</p> <p>Topic 4: Cognitive activity. Scientific cognition.</p> <p>Topic 5: Economic activity and its measures; macroeconomic indicators; economic growth and economic development.</p> <p>Topic 6: The concept of norms; technical and social norms; functions and main types of social norms.</p> <p>Topic 7: Family, its functions and typology.</p> <p>Topic 8: Ethics of science.</p> <p>Topic 9: The concept and principles of legal status.</p>
<p>Кузнецов А. Л. Обществознание: учеб. пособие для иностранных граждан подготовительного факультета. М.: МАДИ, 2019. 100 с. URL: // https://www.madi.ru/1216-elektronnaya-biblioteka-podgotovitel'nogo-fakulteta-dlya-ino.html</p>	<p>Topic 1: Society and Nature, Society and Culture.</p> <p>Topic 2: Globalisation, its processes, main directions and consequences.</p> <p>Topic 3: Directions, forms and types of social dynamics.</p>
<p>Меньшова Е. П. Практические занятия по дисциплине «Обществознание». В 2 ч. Ч. 1. Человек и общество. Духовная и экономическая сфера. М.: МАДИ, 2018. 100 с. URL: // https://www.madi.ru/1216-elektronnaya-biblioteka-podgotovitel'nogo-fakulteta-dlya-ino.html</p>	<p>Topic 1: Society and Nature, Society and Culture.</p> <p>Topic 2: Globalisation, its processes, main directions and consequences.</p> <p>Topic 3: Directions, forms and types of social dynamics.</p>

<p>Липский Б. И. [и др.] Обществознание. Базовый и углубленный уровни: 10—11 классы: учебник для среднего общего образования. Москва: Издательство Юрайт, 2024. 346 с. URL: // https://urait.ru/bcode/544784</p>	<p>Topic 1: Society and Nature, Society and Culture. Topic 2: Globalisation, its processes, main directions and consequences. Topic 3: Directions, forms and types of social dynamics. Topic 5: Economic activity and its measures; macroeconomic indicators; economic growth and economic development. Topic 6: The concept of norms; technical and social norms; functions and main types of social norms. Topic 9: The concept and principles of legal status.</p>
<p>Никифоров, Ю. С. Обществознание: Подготовка к ЕГЭ : учебное пособие / Ю. С. Никифоров, Н. А. Валева. 2-е издание, переработанное и дополненное. – Ярославль : Ярославский государственный педагогический университет им. К.Д. Ушинского, 2021. 215 с. URL: // https://elibrary.ru/item.asp?id=47268279</p>	<p>Topic 1: Society and Nature, Society and Culture. Topic 2: Globalisation, its processes, main directions and consequences. Topic 3: Directions, forms and types of social dynamics. Topic 4: Cognitive activity. Scientific cognition. Topic 5: Economic activity and its measures; macroeconomic indicators; economic growth and economic development. Topic 6: The concept of norms; technical and social norms; functions and main types of social norms. Topic 7: Family, its functions and typology. Topic 8: Ethics of science. Topic 9: The concept and principles of legal status.</p>
<p>Шульман Р. Е., Казанова Н. В., Мельникова Е. В. [и др.]. Обществознание. Разбор тестовых заданий вступительного испытания для поступающих в ВолГГТУ. Волгоград: Волгоградский государственный технический университет, 2020. 52 с. URL: // https://elibrary.ru/item.asp?id=43056375</p>	<p>Topic 1: Society and Nature, Society and Culture. Topic 2: Globalisation, its processes, main directions and consequences. Topic 3: Directions, forms and types of social dynamics. Topic 5: Economic activity and its measures; macroeconomic indicators; economic growth and economic development. Topic 6: The concept of norms; technical and social norms; functions and main types of social norms. Topic 7: Family, its functions and typology. Topic 8: Ethics of science. Topic 9: The concept and principles of legal status.</p>

Sources in English	Topic
Biology	

<p>Bastawros Dr. Human Reproduction Publisher: Iowa State University Digital Press, 2023 URL: //https://iastate.pressbooks.pub/humanreproduction/</p>	<p>Topic 3: Heredity and variability. Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical.</p>
<p>Fowler Samantha, Roush Rebecca, Wise James. Concepts of Biology. Rice Universityet. Houston, Texas. 2024. 615 p. URL: https://openstax.org/details/books/concepts-biology</p>	<p>Topic 1: General biological laws. Levels of organisation of living nature Topic 2: Biological systems. Properties of living things. Cell as a structural and functional unit of living. Cellular structure of organisms. Topic 3: Heredity and variability. Topic 4: Man and his health. Integrity of the human body, glands of internal secretion and their hormones; comparison of nervous and humoral regulation. Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical basis of breeding. Topic 6: Biotechnology, genetic engineering, cloning. Topic 7: The essence of evolution. Topic 8: Methods of biological research. Working with biological preparations and devices. Analysing and interpreting biological information</p>
<p>Hove Michael J. and Martinez Steven. Biological Psychology. Publisher: ROTEL, 2024 URL: https://open.umn.edu/opentextbooks/textbooks/biological-psychology</p>	<p>Topic 1: General biological laws. Levels of organisation of living nature Topic 2: Biological systems. Properties of living things. Cell as a structural and functional unit of living. Cellular structure of organisms. Topic 3: Heredity and variability. Topic 4: Man and his health. Integrity of the human body, glands of internal secretion and their hormones; comparison of nervous and humoral regulation. Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical basis of breeding. Topic 6: Biotechnology, genetic engineering, cloning. Topic 8: Methods of biological research. Working with biological preparations and instruments. Analysing and interpreting biological information</p>
<p>Nichols Ryan, Charbonneau Mathieu, Chellappoo Azita and others. Cultural Evolution: A Review of Theoretical Challenges. Evolutionary Human Sciences, 2024. P. 1–25. URL: //</p>	<p>Topic 7: The essence of evolution.</p>

https://www.cambridge.org/core/journals/evolutionary-human-sciences/article/cultural-evolution-a-review-of-theoretical-challenges/F1DAA0367EBB4F7866F9B624DB2D9BEA	
<p>Simons Amanda. Chromosomes, Genes, and Traits: An Introduction to Genetics. Publisher: ROTEL, 2024 URL: // https://open.umn.edu/opentextbooks/subjects/biology</p>	<p>Topic 5: Basics of heredity, genetic diseases and their influence on behaviour and mental state. Genetics - theoretical basis of breeding. Topic 6: Biotechnology, genetic engineering, cloning.</p>
Social Studies	
<p>Oparaduru John, Onyemauche John. Deviant behaviours in schools: implication for counselling. Lab: John Oparaduru's Lab March 2021 URL: // https://www.researchgate.net/publication/349693033</p>	<p>Topic 6: The concept of norms; technical and social norms; functions and main types of social norms.</p>
<p>Nichols Ryan, Charbonneau Mathieu, Chellappoo Azita and others. Cultural Evolution: A Review of Theoretical Challenges. Evolutionary Human Sciences, 2024. P. 1–25. URL: // https://www.researchgate.net/publication/378176969 Cultural Evolution_A_Review_of_Theoretical_Challenges</p>	<p>T Topic 1: Society and Nature, Society and Culture.</p>
<p>Tonja r. Conerly, Kathleen Holmes, Asha Lal Tamang, North Hennepin. Introduction to Sociology. Rice University. Houston, Texas. 2021. 653 p. URL: // https://openstax.org/details/books/introduction-sociology-3e</p>	<p>Topic 1: Society and Nature, Society and Culture. Topic 2: Globalisation, its processes, main directions and consequences. Topic 3: Directions, forms and types of social dynamics. Topic 5: Economic activity and its measures; macroeconomic indicators; economic growth and economic development. Topic 6: The concept of norms; technical and social norms; functions and main types of social norms. Topic 7: Family, its functions and typology. Topic 8: Ethics of science.</p>

Psychology

Sources in Russian	Topic
<p>Билич Г.Л., Зигалова Е.Ю. Биология для поступающих в вузы. Москва: Э, 2018. 781 с. URL: https://www.google.ru/books/edition/%D0%91%D0%B8%D0%BE%D0%BB%D0%BE%D0%B3%D0%B8%D1%8F_%D0%B4%D0%BB</p>	<p>Topic 1: Structure and functions of the main organoids of the cell.</p>

<p>%D1%8F_%D0%BF%D0%BE%D1%81%D1%82%D1%83%D0%BF%D0%B0%D1%8E/JkRbDwAAQBAJ?hl=ru&gbpv=1&dq=inauthor:%22%D0%93%D0%B0%D0%B1%D1%80%D0%B8%D1%8D%D0%BB%D1%8C+%D0%91%D0%B8%D0%BB%D0%B8%D1%87%22&printsec=frontcover</p>	
<p>Лернер Г. И. Биология: новый полный справочник для подготовки к ЕГЭ. Москва: АСТ: Астрель, 2015. 412 с. URL:https://go.11klasov.net/1202-biologiya-2-knigi-2014-i-2010-god-polnyy-spravochnik-dlya-podgotovki-k-ege-lerner-gi.html</p>	<p>Topic 1: Structure and functions of the main organoids of the cell. Topic 2: Reproduction and individual development of organisms. Sexless and sexual reproduction. Embryonic and postembryonic periods of ontogenesis. Topic 3: Evolutionary doctrine. Basic provisions of the theory of C. Darwin. Driving forces of evolution: mutations, variability, natural selection. Topic 4: Main systematic groups of organisms. Classification of living organisms. Characteristics of the main kingdoms and types. Topic 5: Internal environment of the organism and homeostasis. Mechanisms of homeostasis maintenance. Topic 6: The nervous system and its functions. Structure and functions of the nervous system departments. Reflex activity of the nervous system. Topic 7: Higher Nervous Activity. Conditioned and unconditional reflexes. Consciousness and thinking. Topic 8: Analysers and sensory organs. Structure and functions of analysers. Importance of the sensory organs for the organism's vital activity. Topic 9: Behaviour of organisms. Congenital and acquired forms of behaviour. Instincts and learning. Topic 10. Fundamentals of ecology. Ecological factors and their influence on organisms. Ecosystems and their components.</p>
<p>Максимов В. И., Остапенко В. А., Фомина В. Д., Ипполитова Т. В. Биология человека: Учебник / Под ред. В. И. Максимова. СПб.: Издательство «Лань», 2015. 368 с. URL: https://www.klex.ru/11gs</p>	<p>Topic 2: Reproduction and individual development of organisms. Sexless and sexual reproduction. Embryonic and postembryonic periods of ontogenesis. Topic 3: Evolutionary doctrine. Basic provisions of the theory of C. Darwin. Driving forces of evolution: mutations, variability, natural selection. Topic 4: Main systematic groups of organisms. Classification of living organisms. Characteristics of the main kingdoms and types.</p>

	<p>Topic 5: Internal environment of the organism and homeostasis. Mechanisms of homeostasis maintenance.</p> <p>Topic 6: The nervous system and its functions. Structure and functions of the nervous system departments. Reflex activity of the nervous system.</p> <p>Topic 7: Higher Nervous Activity. Conditioned and unconditional reflexes. Consciousness and thinking.</p> <p>Topic 8: Analysers and sensory organs. Structure and functions of analysers. Significance of sense organs for organism's vital activity.</p> <p>Topic 9: Behaviour of organisms. Congenital and acquired forms of behaviour. Instincts and learning.</p> <p>Topic 10. Fundamentals of ecology. Ecological factors and their influence on organisms. Ecosystems and their components.</p>
<p>Пасечник В.В., Каменский А.А., Рубцов А.М. [и др.]. Биология. 11 класс: учеб. для общеобразоват. организаций: углубл. уровень. Москва: Просвещение, 2022. 320 с. URL:https://www.litres.ru/book/vladimir-pasechnik/biologiya-11-klass-uglublennyy-uroven-68292992/</p>	<p>Topic 1: Structure and functions of the main organoids of the cell.</p> <p>Topic 2: Reproduction and individual development of organisms. Sexless and sexual reproduction. Embryonic and postembryonic periods of ontogenesis.</p> <p>Topic 3: Evolutionary doctrine. Basic provisions of the theory of C. Darwin. Driving forces of evolution: mutations, variability, natural selection.</p> <p>Topic 4: Main systematic groups of organisms. Classification of living organisms. Characteristics of the main kingdoms and types.</p> <p>Topic 5: Internal environment of the organism and homeostasis. Mechanisms of homeostasis maintenance.</p> <p>Topic 6: The nervous system and its functions. Structure and functions of the nervous system departments. Reflex activity of the nervous system.</p> <p>Topic 7: Higher Nervous Activity. Conditioned and unconditional reflexes. Consciousness and thinking.</p> <p>Topic 8: Analysers and sensory organs. Structure and functions of analysers. Significance of sense organs for organism's vital activity.</p> <p>Topic 9: Behaviour of organisms. Congenital and acquired forms of behaviour. Instincts and learning.</p>

	Topic 10. Fundamentals of ecology. Ecological factors and their influence on organisms. Ecosystems and their components.
<p>Погребняк Т. А., Скоркина М.Ю., Хорольская Е.Н. [и др.] Олимпийский тренажер. Биология 5–11 классы: учебно-методические пособие. Белгород: БелГУ, 2021. - 127 с.</p> <p>URL:https://search.rsl.ru/ru/search#q=%D0%9E%D0%BB%D0%B8%D0%BC%D0%BF%D0%B8%D0%B9%D1%81%D0%BA%D0%B8%D0%B9%20%D1%82%D1%80%D0%B5%D0%BD%D0%B0%D0%B6%D0%B5%D1%80%20%D0%91%D0%B8%D0%BE%D0%BB%D0%BE%D0%B3%D0%B8%D1%8F</p>	<p>Topic 1: Structure and functions of the main organoids of the cell.</p> <p>Topic 2: Reproduction and individual development of organisms. Sexless and sexual reproduction. Embryonic and postembryonic periods of ontogenesis.</p> <p>Topic 3: Evolutionary doctrine. Basic provisions of the theory of C. Darwin. Driving forces of evolution: mutations, variability, natural selection.</p> <p>Topic 4: Main systematic groups of organisms. Classification of living organisms. Characteristics of the main kingdoms and types.</p> <p>Topic 5: Internal environment of the organism and homeostasis. Mechanisms of homeostasis maintenance.</p> <p>Topic 6: The nervous system and its functions. Structure and functions of the nervous system departments. Reflex activity of the nervous system.</p> <p>Topic 7: Higher Nervous Activity. Conditioned and unconditional reflexes. Consciousness and thinking.</p> <p>Topic 8: Analysers and sensory organs. Structure and functions of analysers. Importance of the sensory organs for the organism's vital activity.</p> <p>Topic 9: Behaviour of organisms. Congenital and acquired forms of behaviour. Instincts and learning.</p> <p>Topic 10. Fundamentals of ecology. Ecological factors and their influence on organisms. Ecosystems and their components.</p>
<p>Шевырёва Т.В., Соломина Е.Н. Биология. 7-9 классы. Методические рекомендации. Москва: Просвещение. 2017. 155 с. URL: https://rubskoshi1.gosuslugi.ru/netcat_files/67/2434/Shevyreva_Solomina_Biologiya_7_9kl..pdf</p>	<p>Topic 1: Structure and functions of the main organoids of the cell.</p> <p>Topic 2: Reproduction and individual development of organisms. Sexless and sexual reproduction. Embryonic and postembryonic periods of ontogenesis.</p> <p>Topic 3: Evolutionary doctrine. Basic provisions of the theory of C. Darwin. Driving forces of evolution: mutations, variability, natural selection.</p> <p>Topic 4: Main systematic groups of organisms. Classification of living organisms. Characteristics of the main kingdoms and types.</p>

	<p>Topic 5: Internal environment of the organism and homeostasis. Mechanisms of homeostasis maintenance.</p> <p>Topic 6: The nervous system and its functions. Structure and functions of the nervous system departments. Reflex activity of the nervous system.</p> <p>Topic 7: Higher Nervous Activity. Conditioned and unconditional reflexes. Consciousness and thinking.</p> <p>Topic 8: Analysers and sensory organs. Structure and functions of analysers. Significance of sense organs for organism's vital activity.</p> <p>Topic 9: Behaviour of organisms. Congenital and acquired forms of behaviour. Instincts and learning.</p> <p>Topic 10. Fundamentals of ecology. Ecological factors and their influence on organisms. Ecosystems and their components.</p>
<p>Ярыгин В.Н. Биология: учебник и практикум для среднего профессионального образования. Москва: Издательство Юрайт, 2024. 378 с. URL: https://urait.ru/bcode/536659</p>	<p>Topic 1: Structure and functions of the main organoids of the cell.</p> <p>Topic 2: Reproduction and individual development of organisms. Sexless and sexual reproduction. Embryonic and postembryonic periods of ontogenesis.</p> <p>Topic 3: Evolutionary doctrine. Basic provisions of the theory of C. Darwin. Driving forces of evolution: mutations, variability, natural selection.</p> <p>Topic 4: Main systematic groups of organisms. Classification of living organisms. Characteristics of the main kingdoms and types.</p> <p>Topic 5: Internal environment of the organism and homeostasis. Mechanisms of homeostasis maintenance.</p> <p>Topic 6: The nervous system and its functions. Structure and functions of the nervous system departments. Reflex activity of the nervous system.</p> <p>Topic 7: Higher Nervous Activity. Conditioned and unconditional reflexes. Consciousness and thinking.</p> <p>Topic 8: Analysers and sensory organs. Structure and functions of analysers. Significance of sense organs for organism's vital activity.</p> <p>Topic 9: Behaviour of organisms. Congenital and acquired forms of behaviour. Instincts and learning.</p>

	Topic 10. Fundamentals of ecology. Ecological factors and their influence on organisms. Ecosystems and their components.
Mathematics	
Гордин Р.К. Это должен знать каждый дошкольник. Москва: МЦНМО, 2021. 53 с. URL: // https://old.mccme.ru/free-books/pdf/gordin.pdf	Topic 8: Basic geometrical figures and their properties. Trigonometric functions and their applications.
Васильева О.Н., Ильенко Н.А., Раскина Л.С., Блинова Т.А. Методическое пособие для предварительного этапа обучения математике на русском языке как иностранном. 4-е изд., перераб. и доп. М.: МАДИ, 2018. 100 с. URL: // https://www.madi.ru/1212-elektronnaya-biblioteka-podgotovitel'nogo-fakulteta-dlya-ino.html	Topic 1: Fundamentals of algebra. Equations and inequalities, their solutions. Systems of linear equations. Topic 2: Functions and their properties. Linear, quadratic and exponential functions. Graphs of functions and their analysis.
Мерзляк А.Г. Номировский Д.А., Поляков В.М. Математика. Алгебра и начала математического анализа. 11 класс: углублённый уровень. Москва: Просвещение, 2024. 412 с. URL: // https://www.litres.ru/book/arkadiy-merzlyak/matematika-algebra-i-nachala-matematicheskogo-analiza-70523824/	Topic 1: Fundamentals of algebra. Equations and inequalities, their solutions. Systems of linear equations. Topic 2: Functions and their properties. Linear, quadratic and exponential functions. Graphs of functions and their analysis. Topic 3: Statistics and probability. Basic concepts of statistics: mean, median, mode. Elements of probability theory, probability distributions. Topic 4: Mathematical logic. Basic logical operations and their application. Logical expressions and truth tables. Topic 5: Elements of mathematical analysis. The concept of limit and continuity of a function. Derivatives and their applications. Topic 6: Discrete Mathematics. Combinatorics and basic counting principles. Graphs and their properties Topic 7: Mathematical model and its application. Constructing and analysing mathematical models. Examples of model applications. Topic 8: Basic geometrical figures and their properties. Trigonometric functions and their applications. Topic 9: Mathematical methods. Using statistical methods to analyse data. Models and research methods.
Удалова Н.Н. Математика. Наглядный справочник для подготовки к ОГЭ и ЕГЭ.	Topic 1: Fundamentals of algebra. Topic 2: Functions and their properties.

<p>Москва: Эксмо, 2019. 304 с. URL: // https://vk.com/doc11604988_587092108</p>	<p>Topic 3: Statistics and probability. Topic 4: Mathematical logic. Topic 5: Elements of mathematical analysis. Topic 6: Discrete Mathematics. Topic 7: Mathematical model and its application. Topic 8: Basic geometrical figures and their properties. Topic 9: Mathematical methods</p>
<p>Шабунин М. И. Математика: пособие для поступающих в вузы /— 7-е изд., испр. и доп. — М.: Лаборатория знаний, 2016. — 744 с. URL: // https://postypashki.ru/wp-content/uploads/2020/09/%D0%9C%D0%B0%D1%82%D0%B5%D0%BC%D0%B0%D1%82%D0%B8%D0%BA%D0%B0_%D0%9F%D0%BE%D1%81%D0%BE%D0%B1%D0%B8%D0%B5_%D0%B4%D0%BB%D1%8F_%D0%BF%D0%BE%D1%81%D1%82%D1%83%D0%BF%D0%B0%D1%8E%D1%89%D0%B8%D1%85_%D0%B2_%D0%B2%D1%83%D0%B7%D1%8B_%D0%A8%D0%B0%D0%B1%D1%83%D0%BD%D0%B8%D0%BD.pdf</p>	<p>Topic 1: Fundamentals of algebra. Topic 2: Functions and their properties. Topic 3: Statistics and probability. Topic 4: Mathematical logic. Topic 5: Elements of mathematical analysis. Topic 6: Discrete Mathematics. Topic 7: Mathematical model and its application. Topic 8: Basic geometrical figures and their properties. Topic 9: Mathematical methods</p>
<p>Яценко И. В., Высоцкий И. Р., Забелин А. В. и др. ЕГЭ. 4000 задач с ответами по математике: все задания «Закрытый сегмент», задания 1–12 (профильный уровень), задания 1–20 (базовый уровень), все прототипы, ответы. Москва: Экзамен, 2021. 703 с. URL: // https://go.11klasov.net/3756-ege-4000-zadach-s-otvetami-po-matematike-bazovyy-i-profilnyy-urovni-zakrytyy-segment-yaschenko-iv-i-dr.html</p>	<p>Topic 1: Fundamentals of algebra. Topic 2: Functions and their properties. Topic 3: Statistics and probability. Topic 4: Mathematical logic. Topic 5: Elements of mathematical analysis. Topic 6: Discrete Mathematics. Topic 7: Mathematical model and its application. Topic 8: Basic geometrical figures and their properties. Topic 9: Mathematical methods Математическая модель и её применение.</p>

Sources in English	Topic
<p>Biology Bastawros Dr. Human Reproduction Publisher: Iowa State University Digital Press, 2023 URL: https://iastate.pressbooks.pub/humanreproduction/</p>	<p>Topic 2: Reproduction and individual development of organisms. Sexless and sexual reproduction. Embryonic and postembryonic periods of ontogenesis.</p>
<p>Fowler Samantha, Roush Rebecca, Wise James. Concepts of Biology. Rice University. Houston, Texas. 2024. 615 p. URL: // https://openstax.org/details/books/concepts-biology</p>	<p>Topic 1: Structure and functions of the main organoids of the cell. Topic 2: Reproduction and individual development of organisms. Sexless and sexual</p>

	<p>reproduction. Embryonic and postembryonic periods of ontogenesis.</p> <p>Topic 3: Evolutionary doctrine. Basic provisions of the theory of C. Darwin. Driving forces of evolution: mutations, variability, natural selection.</p> <p>Topic 4: Main systematic groups of organisms. Classification of living organisms. Characteristics of the main kingdoms and types.</p> <p>Topic 5: Internal environment of the organism and homeostasis. Mechanisms of homeostasis maintenance.</p> <p>Topic 6: The nervous system and its functions. Structure and functions of the nervous system departments. Reflex activity of the nervous system.</p> <p>Topic 7: Higher Nervous Activity. Conditioned and unconditional reflexes. Consciousness and thinking.</p> <p>Topic 8: Analysers and sensory organs. Structure and functions of analysers. Significance of sense organs for organism's vital activity.</p> <p>Topic 9: Behaviour of organisms. Congenital and acquired forms of behaviour. Instincts and learning.</p> <p>Topic 10. Fundamentals of ecology. Ecological factors and their influence on organisms. Ecosystems and their components.</p>
<p>Hove Michael J. and Martinez Steven. Biological Psychology. Publisher: ROTEL, 2024 URL: // https://open.umn.edu/opentextbooks/textbooks/biological-psychology</p>	<p>Topic 2: Reproduction and individual development of organisms. Sexless and sexual reproduction. Embryonic and postembryonic periods of ontogenesis.</p> <p>Topic 3: Evolutionary doctrine. Basic provisions of the theory of C. Darwin. Driving forces of evolution: mutations, variability, natural selection.</p> <p>Topic 5: Internal environment of the organism and homeostasis. Mechanisms of homeostasis maintenance.</p> <p>Topic 6: The nervous system and its functions. Structure and functions of the nervous system departments. Reflex activity of the nervous system.</p> <p>Topic 7: Higher Nervous Activity. Conditioned and unconditional reflexes. Consciousness and thinking.</p> <p>Topic 8: Analysers and sensory organs. Structure and functions of analysers. Significance of sense organs for organism's vital activity.</p>

	<p>Topic 9: Behaviour of organisms. Congenital and acquired forms of behaviour. Instincts and learning.</p> <p>Topic 10. Fundamentals of ecology. Ecological factors and their influence on organisms. Ecosystems and their components.</p>
<p>Simons Amanda. Chromosomes, Genes, and Traits: An Introduction to Genetics. Publisher: ROTEL, 2024</p> <p>URL: // https://open.umn.edu/opentextbooks/subjects/biology</p>	<p>Topic 3: Evolutionary doctrine. Basic provisions of the theory of C. Darwin. Driving forces of evolution: mutations, variability, natural selection.</p>
Mathematics	
<p>Lynn Marecek, MaryAnne Anthony-Smith, Andrea Honeycutt Mathis.</p> <p>Algebra and Trigonometry 2e A. Proofs, Identities, and Toolkit Functions URL: //: https://openstax.org/books/algebra-and-trigonometry-2e/pages/1-1-real-numbers-algebra-essentials</p>	<p>Topic 1: Fundamentals of algebra.</p> <p>Topic 2: Functions and their properties.</p> <p>Topic 3: Statistics and probability.</p> <p>Topic 4: Mathematical logic.</p> <p>Topic 5: Elements of mathematical analysis.</p> <p>Topic 8: Basic geometrical figures and their properties.</p>
<p>Manes Michelle. Mathematics for Elementary Teachers. Honolulu, HI. University of Hawai`i at Mānoa. 2018.</p> <p>URL: //: https://pressbooks-dev.oer.hawaii.edu/math111/</p>	<p>Topic 1: Fundamentals of algebra. Equations and inequalities, their solutions. Systems of linear equations.</p> <p>Topic 2: Functions and their properties. Linear, quadratic and exponential functions. Graphs of functions and their analysis.</p>
<p>Rozhkovskaya N. Blue Book of Mathematics for Elementary School Teachers. Kansas State University, 2021, 167 p.</p> <p>URL: //: https://www.math.ksu.edu/~rozhkovs/math320_Bversion.pdf</p>	<p>Topic 1: Fundamentals of algebra. Equations and inequalities, their solutions. Systems of linear equations.</p> <p>Topic 2: Functions and their properties. Linear, quadratic and exponential functions. Graphs of functions and their analysis.</p>
<p>Thomas Hyun. Acing the New SAT Math. Greenhall Publishing Thousand OAKS, CA, 2016. 445 p.</p> <p>URL: //: Acing the SAT Subject Tests in Math Level 1 and Level 2 - Google Books</p>	<p>Topic 1: Fundamentals of algebra. Equations and inequalities, their solutions. Systems of linear equations.</p> <p>Topic 3: Statistics and probability. Basic concepts of statistics: mean, median, mode. Elements of probability theory, probability distributions.</p>

2.1 Recommended online courses

Education & Educational Research

Online courses in English	Link	Summary
Social Studies		
OER Project: Free Online Social Studies & History	https://www.oerproject.com/Courses	Offers a variety of standards-aligned social studies courses that connect historical events to

		contemporary issues. Courses are adaptable and appropriate for middle and high school students.
Howard College OER	https://howardcollege.libguides.com/oer/socialsciences	A collection of open educational resources in the social sciences, including various online courses and textbooks. The site provides access to several platforms offering free learning materials.
Lesson One The Connection Between the Constitution and the Declaration	https://www.youtube.com/watch?v=vGGx7sTDnMY	The Declaration of Independence is explored, highlighting its core principles. The connection between these universal ideals and the Constitution is also analyzed.
Coursera Law You Can Use	https://www.classcentral.com/course/coursera-law-you-can-use-pitt-law-295154	The course presents legal and social subjects through adaptable weekly modules. Each module is crafted for independent completion, allowing learners to concentrate on areas that meet their specific needs. Topics include an overview of the legal system, human resources law addressing issues like discrimination and workplace policies, corporate compliance focusing on ethics, and international business law.
Education for Sustainable Development Hamad Bin Khalifa University via edX Help	https://www.classcentral.com/course/education-teacher-training-hamad-bin-khalifa-univ-296812	Education for Sustainable Development (ESD) encourages: <ul style="list-style-type: none"> - Understanding and learning from global best practices - Localizing content - Developing holistic, inclusive, and values-driven teaching methods and frameworks

		An ethical, values-based framework is essential for nurturing the next generation of global citizens who are equipped to address the intricate challenges we encounter. This course prepares all participants in the educational ecosystem, fostering a sense of ownership, leadership, and responsibility in a generation that our world urgently needs to thrive and progress.
Mathematics		
Introduction to University Mathematics: Lecture 1 - Oxford Mathematics 1st Year Student Lecture	https://www.youtube.com/watch?v=aS6R3epK3ms&list=PL4d5ZtfQonW0A4VHeiY0gSkX1QEraaacE	The course introduces concepts and ways of thinking mathematically. Lecture 1, Algebra. Natural numbers and induction.
Introduction to University Mathematics: Lecture 2 - Oxford Mathematics 1st Year Student Lecture	https://www.youtube.com/watch?v=UCev1nEiGqI&list=PL4d5ZtfQonW0A4VHeiY0gSkX1QEraaacE&index=2	Lecture 2. Binomial theorem and set.
University of Aberdeen - Online Access Course in Maths	https://on.abdn.ac.uk/courses/access-maths-5/	The University of Aberdeen offers an online mathematics course that lets you study at your own pace and earn a qualification equivalent to Scotland's National 5. This course covers a range of topics essential for university admission, especially for those pursuing teacher training.
Open University - Free Online Mathematics Courses	https://www.open.edu/openlearn/education-development/university-ready/free-online-mathematics-courses	The Open University provides a variety of free online mathematics courses, including subjects like differential equations and statistics. These courses aim to help students develop foundational skills for advanced studies.

Online courses in Russian	Link	Summary
Social Studies		
Training course for the Olympiads in Social Science. Part 1: Sociology	https://www.lektorium.tv/sociology	This course is designed to equip students for the Social Studies Olympiad. You will learn strategies for tackling Olympiad tasks and delve into the sociology component, which is a crucial part of your preparation.
Training course for the Olympiads in social studies. Part 2: Political Science and Philosophy	https://www.lektorium.tv/political-science	This course focuses on preparing students for the Social Studies Olympiad. You will acquire skills to tackle Olympiad tasks while exploring key topics in political science and philosophy
USE 2024 from scratch. 1.1 HUMAN BEINGS	https://www.youtube.com/watch?v=Bygz5xdB_wM&list=PLSG9hd_TnN_Dt_ZWSMRE_wot6ASdt7Im1t	This course is designed to equip students for the Social Studies Olympiad. You will develop the skills needed to address Olympiad challenges while delving into essential Topics in political science and philosophy.
Social Studies. USE. Basic theory	https://stepik.org/course/120140/promo?search=4730318311	The course progresses from basic topics to more advanced ones, covering: <ul style="list-style-type: none"> - Human and Society - Social Relationships - Economics - Politics and Law Additionally, there are questions included to assess your understanding.
Mathematics		
Maximum education	https://maximumtest.ru/free-lessons/matematika	The online classes include the following subjects: <ul style="list-style-type: none"> - Graphical applications of derivatives

		<ul style="list-style-type: none"> - Definition and analysis of derivatives - Prisms - Logarithmic equations - Area of triangles - Trigonometric circle - Trigonometry in geometry
Lectorium. Probability and Statistics. Grade 7	https://www.lektorium.tv/probability-statistics	The course "Probability and Statistics for Grade 7" offered by the NSU Department of Mechanics and Mathematics is designed to be engaging and enjoyable, much like a textbook with a twist! It covers everything from table creation to graph theory, all presented in concise lectures lasting 7 to 10 minutes.
Lectorium. Linear algebra and analytical geometry	https://www.lektorium.tv/linejnaya-algebra	Mathematics is an ancient yet perpetually relevant science. Many challenges encountered by individuals can be expressed as mathematical problems.
Hundred	https://sotkaonline.ru/	The online school provides an opportunity to study theory and apply it in the classroom using simulators. All lessons are available for viewing in recorded format.
Foxford	https://foxford.ru/catalog/courses/matematika?srsId=AfmBOorV_IITi_IPp7ppQIr2OkWwqf9odXE9cFe2mYxAdTcnqU2IkbvW	Foxford Online School offers 8-month mini-group courses in maths for USE 2025. Students can study the subject in depth and receive support from teachers

Special Education

Online courses in English	Link	Summary
Introduction, Course Organization of MIT 7.016 Introductory Biology, Fall 2018	https://www.youtube.com/watch?v=KIVHqq38KJU&list=PLU14u3cNGP63LmSVIVzy584-ZbjbJ-Y63&index=1	The course explores fundamental concepts in biochemistry, molecular biology, and genetics. It

		includes topics such as chemical bonds and molecular interactions, lipids and membranes, the structure of amino acids, peptides, and proteins, as well as enzymes and metabolism. Additionally, it covers carbohydrates, glycoproteins, and nucleic acids.
MIT 7.01SC Fundamentals of Biology	https://www.youtube.com/watch?v=PzY0MWEEE6U&list=PLF83B8D8C87426E44	The Fundamentals of Biology course focuses on the basic principles of biochemistry, molecular biology, genetics and recombinant DNA. These principles are essential for understanding basic life mechanisms to consolidate the biological knowledge needed to understand many issues in everyday life, from human health and disease to loss of biodiversity and environmental quality.
Biology in Focus Chapter 1: Introduction - Evolution and the Foundations of Biology	https://www.youtube.com/watch?v=uzHJluGAh_c&list=PLyNjAlVqsujEP9y-bx6gR4s82APqcRaC5&index=1&pp=iAQB	The course covers the following subjects: <ul style="list-style-type: none"> - Fundamental concepts and principles of biology - General biological patterns - Biological systems - The organism as a biological system - Human anatomy and physiology - Essential principles of health protection, disease prevention, and the environmental influences on human health - Basics of genetics - Ecology
Social Structure	https://www.youtube.com/watch?v=-BVeSykcQeE&list=PLbKSbF	Topics covered: Theories of social institutions. Definition and essence of social institutions.

	nKYVY2_9HVzVoAbg4G7BILVAMYx	
Social institutions	https://www.youtube.com/watch?v=9KR1bad76qg&list=PLbKSbFnKYVY2_9HVzVoAbg4G7BILVAMYx&index=2&pp=iAQB	The online course focuses on the Topic of Social Institutions.
Social institutions - education, family, and religion	https://www.youtube.com/watch?v=vStLGBTkMBQ&list=PLbKSbFnKYVY2_9HVzVoAbg4G7BILVAMYx&index=3&pp=iAQB	<p>The course is designed to explore the following topics:</p> <ul style="list-style-type: none"> - Social Institutions - Education - Factors influencing nuclear and extended families - Religion: belief and skepticism - Social dynamics - Models of social development - The multifaceted nature of social development and global challenges of the 21st century - Risks associated with societal development.

Online courses in Russian	Link	Summary
Biology		
Lectorium	https://www.lektorium.tv/krebs-cycle	An in-depth course about energy metabolism is one of the key topics for understanding how living organisms function. The Krebs cycle is a complex series of chemical reactions within the human body. They occur in all cells that use oxygen in the process of respiration.
Lecture theatre: Biosensors	https://www.lektorium.tv/biosensors	In this course, you will explore the molecular structure of various sensory systems and gain insights into the intricate functioning of the nervous system.

Webium	https://webium.ru/catalog/biologiya-ege	Webium Online School provides courses designed to help students prepare for the USE in biology. These courses feature a comprehensive study of the subject, with a focus on practical application. Students can work on sample assignments and receive expert guidance throughout their learning journey.
TurboEGE.	https://www.sravni.ru/ege-oge/top-biologiya-ege/	The courses offer diverse learning formats, including mock tests and expert counseling. This approach enables students to gain essential knowledge while also familiarizing themselves with the format of USE tasks.
99 points	https://www.sravni.ru/ege-oge/top-biologiya-ege/	The course offers preparation for the Unified State Exam in Biology with the aim of obtaining score of 100 points. Students can study at their own pace and receive support from experienced teachers
Lecture theatre: Genetics	https://www.lektorium.tv/genetics	The course will introduce you to fundamental concepts and contemporary research in genetics. We will start with the DNA molecule, the molecular basis of heredity, and then delve into an in-depth exploration of its functional units—genes.
Social Studies		
Lectorium Social Studies	https://www.lektorium.tv/socialscience	Throughout this course, you will revisit essential social science terminology and concepts, gaining insight into how to scientifically characterize social phenomena and their significance within society as a cohesive system.

		Additionally, the course will enhance your practical skills, enabling you to illustrate theoretical principles of social sciences with relevant examples and apply your knowledge effectively in crafting abstracts, reviews, essays, or creative projects.
Online course on preparation for the RANEP Schoolchildren Olympiad	https://www.lektorium.tv/social-science?_ga=2.92209370.1162428063.1724332361-1700050250.1724332360&gl=1*16b2uck*_gcl_au*MTM3NjcxMjQ1Ni4xNzI0MzMzMzU5*_ga*MTcwMDA1MDI1MC4xNzI0MzMzMzYw*_ga_YSG27FE6BZ*MTcyNDQxNTI1Ni4yLjEuMTcyNDQxNTM0OC4zNi4wLjA.#rec291668915	The course provides: <ul style="list-style-type: none"> - An understanding of the various approaches to defining "social" as a distinct type of relationship. - The ability to differentiate between statements derived from sociological concepts and those based on common sense. - Familiarity with sociological texts, theories, and concepts. - Insight into the principles of constructing sociological arguments
Lectitorium Social Studies. Presidential Physics and Mathematics Lyceum No. 239	https://www.lektorium.tv/social-science?_ga=2.92209370.1162428063.1724332361-1700050250.1724332360&gl=1*16b2uck*_gcl_au*MTM3NjcxMjQ1Ni4xNzI0MzMzMzU5*_ga*MTcwMDA1MDI1MC4xNzI0MzMzMzYw*_ga_YSG27FE6BZ*MTcyNDQxNTI1Ni4yLjEuMTcyNDQxNTM0OC4zNi4wLjA.#program	Preparation for Olympiads in social studies. Part 1. Sociology This course explores the nature of social science Olympiads and their significance. Students will learn effective strategies for tackling Olympiad tasks and delve into the "Sociology" section, which is crucial for winning an Olympiad.
Webium - webium.ru	https://webium.ru/catalog/obscHESTVOZnanie-ege/	Webium offers online social studies courses that include webinars, interactive homework assignments, meme jokes from instructors and a powerful positive vibe, virtual realities. Students have access to a private account where

		class notes, scripted notes and cheat sheets are stored.
USE 2024 from scratch. 1.1 HUMAN BEINGS	https://www.youtube.com/watch?v=Bygz5xdB_wM&list=PLSG9hd_TnN_Dt_ZWSMRE_wot6ASdt7Im1t	Topic 1: Human being as a result of biological and socio-cultural development.
USELand - ege-land.ru	https://www.kp.ru/putevoditel/ege/luchshie-onlajn-kursy-podgotovki-k-eghe/	USELand offers innovative social studies courses that are suitable for all students planning to take the USE in this subject. The courses include a variety of learning formats and mock tests.
Social Studies. USE. Basic theory	https://stepik.org/course/120140/promo?search=4730318311	The course progresses from basic topics to more advanced ones, covering: <ul style="list-style-type: none"> - Human and Society - Social Relationships - Economics - Politics and Law Additionally, there are questions included to assess your understanding.
Thematic simulator for preparation for the USE in social studies	https://thenewschool.ru/trainer/social_studies	The simulator is designed to reinforce theoretical knowledge across all topics outlined in the codifier, while also identifying and addressing any potential gaps in understanding. It is based on the Open Bank of USE tasks (fipi.ru and os.fipi.ru). This course features 909 exercises, ensuring that after completing them, you will be fully prepared to tackle the test component with confidence
Yandex. Tutor	https://yandex.ru/tutor/subject/?subject_id=11	Yandex.Tutor is an online platform that provides personalized lessons with skilled instructors to help students prepare for the USE in social studies. Learners can choose a schedule that suits

		them and receive tailored feedback on their progress.
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Educational Psychology

Online courses in English	Link	Summary
Human Body Systems Overview (Updated 2024)	https://youtu.be/0JDCViWGn-0?si=d2eWmKvsqqs3mHeW	The course is devoted to the study of human body systems. Functions are described and examples of the structure of the body systems are discussed.
Biology in Focus Chapter 1: Introduction - Evolution and the Foundations of Biology	https://www.youtube.com/watch?v=uzHJluGAh_c&list=PLyNjAlVqsujEP9y-bx6gR4s82APqcRaC5&index=2	The course covers the following subjects: <ul style="list-style-type: none"> - Fundamental concepts and principles of biology - General biological patterns - Biological systems - The organism as a biological system - Human anatomy and physiology - Essential principles of health protection, disease prevention, and the environmental influences on human health - Basics of genetics - Ecology
Research Methods and Techniques	https://youtu.be/YOppeXzFkBs?si=wSNRFXQKPBEODsYo	The course is devoted to the study of the topic: 'Methods of biological research'
Environmental Value Systems	https://youtu.be/LP8ox5XWqAA?si=1_IBZKxWPCiAQ1fX	The course is devoted to the study of the topic: "World view and value system in the field of environmental protection".
Social Structure	https://www.youtube.com/redirect?event=video_description&redir_token=QUFFLUhqBDg2bzB1WGc4X1hnZkc4Y2E2VldIR3RKZjNEd3xBQ3Jtc0tsOWluVHhlnTVOa0pfd21DR2tTYXUwRFdnM3pHSmxIWGZKb1pCQW1acWI5eTFRRmtfaHZ3ZzBid0tJTnBiTFRwSm1VdERnNHV3c3c2dlFMN	The online course presents the following topics: Theories of Social Institutions. Definition and essence of social institutions. Social structure. Social groups.

	1RoQkU1YkY0VfVsV1U5S3ZVV09E0ThQOWY2c0dOMTNjUQ&q=https%3A%2F%2Fwww.khanacademy.org%2Ftest-prep%2Fmcat%2Fsociety-and-culture%2Fsocial-structures%2Fv%2Finstitutions-education-family-religion%3Futm_source%3DYT%26utm_medium%3DDesc%26utm_campaign%3Dmcat&v=9KR1bad76qg	
Social institutions	https://www.youtube.com/watch?v=9KR1bad76qg&list=PLbKSbFnKYVY2_9HVzVoAbg4G7BILVAMYx	Online course topics: Social institution. Social dynamics. Models of social development
Social institutions - education, family, and religion	https://www.khanacademy.org/test-prep/mcat/society-and-culture/social-structures/v/institutions-education-family-religion?utm_source=YT&utm_medium=Desc&utm_campaign=mcat	The course provides basic information about functioning peculiarities of social institutions.

Online courses in Russian	Link	Summary
Biology		
Teach-in	https://teach-in.ru/lecture/2021-07-05-Dubynin-2#00:00:19	This course covers the following topics: - Central Nervous System (CNS) and spinal cord - Overview of the nervous system - Development of the nervous system - Brain development - Structure and membranes of the brain - Anatomy of the spinal cord - Grey matter in the spinal cord - Functions of the spinal cord

		- Transverse sections of the spinal cord
Teach-in	https://teach-in.ru/lecture/2021-07-12-Dubynin-2#00:00:19	This course focuses on the following topics: - Visual sensitivity - The sensory system - The anatomy of the eye - The crystalline lens - The retina - The optic nerve and visual centers in the brain - Cones and rods
Teach-in	https://teach-in.ru/lecture/2021-07-16-Dubynin-1#00:00:19	The course covers the following topics: - Vestibular and auditory sensitivity - The internal ear - The vestibular system - The auditory system
Webium	https://webium.ru/catalog/biologiya-ege/	Webium Online School provides courses designed to help students prepare for the USE in biology. These courses feature a comprehensive study of the subject, with a focus on practical application. Students can work on sample assignments and receive expert guidance throughout their learning journey.
TurboEGE.	https://www.sravni.ru/ege-oge/top-biologiya-ege/	The courses offer diverse learning formats, including mock tests and expert counseling. This approach enables students to gain essential knowledge while also familiarizing themselves with the format of USE tasks.
99 points	https://www.sravni.ru/ege-oge/top-biologiya-ege/	The course offers preparation for the Unified State Exam in Biology with the aim of obtaining the score of 100 points. Students can learn at

		their own pace and receive support from experienced teachers
Social Studies		
stepik.org I. Kant BFU	https://stepik.org/course/21115/promo?auth=registration&search=5013846352	The course covers 45 topics organized into five sections: <ul style="list-style-type: none"> - Philosophy (Man and Society) - Sociology - Political Science - Economics - Jurisprudence
stepik.org	https://stepik.org/course/68098/promo?search=5013886047	The course delves into the concept of globalization, addressing key questions such as: <ul style="list-style-type: none"> - What is globalization? - The globalization of the economy. - The multifaceted nature of globalization processes. - The contradictions inherent in globalization. You will have the opportunity to assess your understanding and engage with relevant sources.
Webium - webium.ru	https://webium.ru/catalog/obscHESTVOZnanie-ege/	Webium provides engaging online social studies courses featuring webinars, interactive homework assignments, and humorous meme jokes from instructors, all infused with a vibrant, positive atmosphere and virtual experiences. Students can access a personal account that stores class notes, scripted materials, and cheat sheets for easy reference.
2024 from scratch. 1.1 HUMAN BEING	https://www.youtube.com/watch?v=Bygz5xdB_wM&list=PLSG9hd_TnN_Dt_ZWSMREwot6ASdt7Im1t	Topic 1: Man as a result of biological and socio-cultural evolution. Human activity.

USELand	https://www.kp.ru/putevoditel/ege/luchshie-onlajn-kursy-podgotovki-k-eghe/	The courses offer diverse learning formats, including mock tests and expert counseling. This approach enables students to gain essential knowledge while also familiarizing themselves with the format of USE tasks.
Social Studies. USE. Basic theory	https://stepik.org/course/120140/promo?search=4730318311	The course is implemented from the simplest topics to more complex ones: <ul style="list-style-type: none"> - Man and society; - Social relations; - Economics; - Politics & Law Mock tests are included for you to assess your progress.

Applied Psychology

Online courses in English	Link	Summary
Biology: Cell Structure I Nucleus Medical Media	https://youtu.be/URUJD5NEXC8?si=35tbaxrpCoVv7A1D	This course focuses on the exploration of the cell as a biological system. It covers the cellular theory regarding the structure of organisms, the integrity and organization of cells, as well as theories related to cellular, chromosomal, and mutations.
Genetics Basics - Introduction Don't Memorise	https://youtu.be/b93KDvQIv18?si=JvuDdUGvpa6tNSX0	The course covers the basics of genetics, genetic mechanisms.
Biology in Focus Chapter 1: Introduction - Evolution and the Foundations of Biology	https://www.youtube.com/watch?v=uzHJluGAh_c	The course covers the following subjects: <ul style="list-style-type: none"> - Fundamental concepts and principles of biology; - General biological patterns; - Biological systems; - The organism as a biological system; - Human anatomy and physiology; - Essential principles of health protection, disease prevention,

		and the environmental influences on human health; - Basics of genetics; - Ecology.
Social Structure	https://www.youtube.com/watch?v=StMXdmt9etE	The online course presents the following topics: Theories of Social Institutions. Definition and nature of social institutions.
Social institutions	https://www.youtube.com/watch?v=9KR1bad76gg	Online course topics: Social institution. Social dynamics. Models of social development
Social institutions - education, family, and religion	https://www.youtube.com/watch?v=vStLGBTkMBQ	Topic. Social institution. Education, family, religion

Online courses in Russian	Link	Summary
Biology		
Teach-in 100 hours of school biology. Human anatomy and physiology	https://teach-in.ru/lecture/2021-07-09-Dubynin-1 https://teach-in.ru/file/synopsis/pdf/one-hundred-hours-of-school-biology-M.pdf	This course centers on the autonomic nervous system, covering the following topics: - Classification of the nervous system; - Sympathetic and parasympathetic divisions; - Distribution of neurons that regulate internal organs within the spinal cord; - Neurotransmitters involved in the sympathetic and parasympathetic systems; - Effects of the sympathetic and parasympathetic systems on internal organs; - Cranial nerves; -Diagram illustrating the autonomic nervous system.
Teach-in 100 hours of school biology. Human anatomy and physiology Dubynin Vyacheslav Albertovich	https://teach-in.ru/lecture/2021-07-12-Dubynin-1	The course is devoted to: Structure of the large hemispheres. White matter Basal ganglia

		<p>Cortex of the large hemispheres</p> <p>Functions of the cerebral cortex</p> <p>Phylogenetic features of the cortex of the large hemispheres</p> <p>Cerebellum</p>
Teach-in 100 hours of school biology. Human anatomy and physiology	https://teach-in.ru/lecture/2021-07-23-Dubynin-1	The course focuses on the topic: Needs and Emotions.
Webium	https://webium.ru/catalog/biologiya-ege/	Webium Online School offers courses to prepare for the USE in biology, which include in-depth study of the discipline, practice orientation in the tasks. Students can solve sample assignments and receive expert counselling
TurboUSE.	https://www.sravni.ru/ege-oge/top-biologiya-ege/	The courses offer diverse learning formats, including mock tests and expert counseling. This approach enables students to gain essential knowledge while also familiarizing themselves with the format of USE tasks.
99 points	https://www.sravni.ru/ege-oge/top-biologiya-ege/	The course offers preparation for the Unified State Exam in Biology with the aim of obtaining the score of 100 points. Students can study at their own pace and receive support from experienced teachers
Social Studies		
Stepik I. Kant BFU	https://stepik.org/course/21115/promo?auth=registration&search=5013846352	<p>The course covers 45 topics organized into five sections:</p> <ul style="list-style-type: none"> - Philosophy (Man and Society); - Sociology; - Political Science; - Economics; - Jurisprudence;

Stepik Social Studies 11th grade	https://stepik.org/course/68098/promo?search=5013886047	The course is devoted to the problem of developing the world community, the ways of forming the social structure are presented.
Lectorium	https://www.lektorium.tv/socialscience?_ga=2.38760483.1032749877.1724411990-675722842.1724411989&_gl=1*1ld0450*_gl_au*Nzk3NTgxMTgyLjE3MjQ0MTE5ODk.*_ga*Njc1NzIyODQyLjE3MjQ0MTE5ODk.*_ga_YSG27FE6BZ*MTcyNDQxMTk5MC4xLjAuMTcyNDQxMTk5MC42MC4wLjA	This course is tailored for high school students gearing up for the BSE and USE exams in "Social Studies." It covers essential social science terminology and concepts, along with the key topics included in the school curriculum for social studies.

Psychology

Online courses in English	Link	Summary
Biology		
5 Kingdoms Animals, plants, fungi, bacteria & protists	https://youtu.be/G3EShHv7W04?si=jVpQ9z05DuQo8Q2y	The course explores the diversity of living things on Earth
Evolution	https://youtu.be/fI7IV3x-dGI?si=6xnjh_hWkSJwTzpi	The course focuses on the study of the evolution of living organisms
How the Environment Affects Our Health. Centers for Disease Control and Prevention (CDC)	https://youtu.be/I7STZsY-Ps?si=Esgvudjr1udxuAl	The course presents the basic principles of health promotion, disease prevention and environmental influences on human health.
Maths		
Oxford Mathematics Introduction to University Mathematics: Lecture 1 - Oxford Mathematics 1st Year Student Lecture	https://www.youtube.com/watch?v=aS6R3epK3ms&t=159s	The course introduces concepts and modes of mathematical thinking. Lecture 1, Algebra. Natural numbers and induction.

Introduction to University Mathematics: Lecture 2 - Oxford Mathematics 1st Year Student Lecture	https://www.youtube.com/watch?v=UCev1nEiGqI	Lecture 2. Binomial theorem and set.
University of Aberdeen - Online Access Course in Maths	https://on.abdn.ac.uk/courses/access-maths-5/	The University of Aberdeen offers an online mathematics course that lets you study at your own pace and earn a qualification equivalent to Scotland's National 5. This course covers a range of topics essential for university admission, especially for those pursuing teacher training.

Online courses in Russian	Link	Summary
Biology		
Teach-in 100 hours of school biology. Human anatomy and physiology	https://teach-in.ru/lecture/2021-07-19-Dubynin-1#00:02:47	The course focuses on the following topics: - Body Sensitivity: including cutaneous sensitivity, pain sensitivity, muscular sensitivity, and internal sensitivity. - Sensory Systems: covering cutaneous sensitivity, pain sensitivity, muscular sensitivity, and internal sensitivity. - Visual Aid: "Sensory Centers in the Spinal Cord and Brain."
Teach-in 100 hours of school biology. Human anatomy and physiology	https://teach-in.ru/lecture/2021-07-19-Dubynin-2#00:00:19	The course centers on the following Topics: - Learning and Memory - Physiological Foundations of Mental Activity - The Biological Significance of Acquired Reflexes - Different Types of Memory

		<ul style="list-style-type: none"> - Short-Term Memory - Imprinting - Associative Learning - Key Principles of Memory and Learning <p>Additionally, the course includes a visual representation titled "Diagram of the Learning Process."</p>
Teach-in 100 hours of school biology. Human anatomy and physiology	https://teach-in.ru/lecture/2021-07-23-Dubynin-2#00:07:39	<p>The course covers the following topics:</p> <ul style="list-style-type: none"> - Unconditional and Conditional Inhibition - Temperament Types - Inhibition Mechanisms: <ul style="list-style-type: none"> - Inhibitory Inhibition - External Inhibition - Conditional Inhibition - Fading Inhibition - Differential Inhibition - Delayed Inhibition - Types of Higher Nervous Activity <p>Additionally, there is a visual aid titled "Scheme of Temperament Properties."</p>
Mathematics		
Maximum education	https://maximumtest.ru/free-lessons/matematika	<p>The online classes include the following subjects:</p> <ul style="list-style-type: none"> - Graphical applications of derivatives; - Definition and analysis of derivatives; - Prisms; - Logarithmic equations; - Area of triangles; - Trigonometric circle; - Trigonometry in geometry.
Lectorium. Probability and Statistics. Grade 7	https://www.lektorium.tv/probability-statistics	<p>The course "Probability and Statistics for Grade 7" offered by the NSU Department of Mechanics and Mathematics is designed to be engaging and</p>

PROGRAM

		enjoyable, much like a textbook with a twist! It covers everything from table creation to graph theory, all presented in concise lectures lasting 7 to 10 minutes.
Lectorium. Linear algebra and analytical geometry	https://www.lektorium.tv/linej-naya-algebra	Mathematics is an ancient yet perpetually relevant science. Many challenges encountered by individuals can be expressed as mathematical problems.