



INNOVATIONS IN ARCHITECTURE, CULTURE, EDUCATION

(4 этаж, кабинет 45)



1	<p>Светикова Анна школа № 1150 класс 8 руководитель проекта – Кузьмина В. А.</p>	<p>Digital Art and Architecture: new transformations are catching on Our project examines the ways modern ART has changed and the new opportunities open to contemporary artists. Digital technology has transformed human expressions such as painting, architecture and sculpture. Innovations can be very helpful for the artists and can enhance the creative process towards innovative and unexplored paths. The aim of the study is to investigate whether innovations play a vital role in contemporary art and to find out positive as well as negative consequences of such an influence.</p>
2	<p>Болбина Дарья школа № 1411 класс 10 руководитель проекта – Горелова Е. Н.</p>	<p>Digital Technologies in Architecture and designing process The invasion of digital technology into our daily lives is an essential irresistible matter. The use of modern technologies in the designing process adds a new dimension to the architectural product, which enables us to materialize our idea. These opportunities enable us to hold on to our human identity and do not allow the technology to distance the architect or the designer from performing his original role – to make human existence on the Earth safe and constructive.</p>
3	<p>Пешков Алексей школа № 1449 класс 9 руководители проекта – Пешкова И. Н., Меринова Е. Н.</p>	<p>3D animation and its impact on the modern industry of animated films The goal of the project is to learn the importance, necessity and success of 3D animation in the modern world. To achieve this goal I found out the information about history of the creation of 3D animation, its advantages and disadvantages, information about new occupations and computer programs to create a 3D animated film. In my project there is a brief instruction about stages of creation a 3D cartoon.</p>
4	<p>Ткаченко Нина, Виноградова Стефания школа № 1449 класс 7 руководители проекта – Смирнова А. А., Селина С. В.</p>	<p>3D design of the playground "The Solar System" in Autodesk Fusion 360 software Nowadays playgrounds can be educational and recreational at the same time. The aim of our project is to create 3D design of the playground “the Solar System” for preschool children. The project tells about scientific facts of the Solar System, describes general safety requirements for playground equipment and surfacing. The product of our project is a model that reflects the position of the planets in the Solar System and is printed by 3D printer.</p>
5	<p>Отвиновская Екатерина, Шатова София школа № 1158 класс 8 руководитель проекта – Алиева С. С.</p>	<p>Evolution of fashion Earlier fashion was not the same as it is now. Now it seems to us that fashion was not as interesting, colorful and diverse as modern fashion. In this project, we have analysed the development of fashion over last 100 years, examined the main clothing styles, found out what laws fashion is influenced by, predicted the future of fashion and developed a sample of school uniform, which students will like.</p>
6	<p>Мындрул Виктория, Борлакова Алина школа № 2070 класс 11 руководитель проекта – Довжик К. В.</p>	<p>Mind Mapping, or how to make your brain work better Mind mapping is a highly effective way of getting information in and out of your brain. The goal of our work is based on detailed study the differences between mind maps and liner note taking. According to this general aim the following particular tasks are put forward: to find out if these methods of studying have common features, to study the mind maps, to investigate the process of creating a mind map.</p>

7	<p>Полина Подкопаева школа № 1236 класс 10 руководитель проекта – Ермолина Л. Н.</p>	<p>The Implementation of the Blockchain Technology in Education Nowadays we cannot imagine our lives without new technologies that make our lives convenient, more and more of us are faced with the phenomenon called blockchain that has a very promising chance for development in everyday life. The novelty, relevance of this system makes us think about the introduction of it in modern education, and my project is about it. I believe the technology will solve the problem of the information exchange and have a great social impact on people.</p>
8	<p>Голицына Полина, Войстрикова Екатерина школа № 1413 класс 7 руководитель проекта – Костенко М. Ю.</p>	<p>The relevance of the use of digital technologies in education Nowadays teachers and students use digital technologies. That is why the main aims of our project are to learn about the use of digital technologies in educational institutions, in-depth study of the possibilities of using digital technologies in education, to create a lesson in English with the use of digital technology in Moscow e-school, to conduct a survey "what digital technologies you use during your studies and additional education".</p>
9	<p>Самофалова Злата, Середа Дарья школа в Капотне класс 10 руководитель проекта – Миронова О. В.</p>	<p>Teaching with clickers, gadgets and apps Nowadays there is a time of modern apps and software developed on the basis of clickers, the educational institutions all over the world use them successfully encouraging teachers to implement these systems into their pedagogical practices. The goal of our project is to research history of classroom response system and analyse main aspects. As a result, we created a list of student response system software and apps which can be applied in our own school to enhance educational process.</p>
10	<p>Егоров Владимир школа № 1537 класс 8 руководители проекта – Минченко М. М., Черкасова С. В.</p>	<p>Educational platform for teaching computer programming Programming and robotics have become more popular at school recently. However, all educational kits are only aimed at robotics and quite expensive. They often have a complete set, designed for the course and represent learning opportunities for beginners. The aim of this project is to create a convenient, cheap platform for teaching programming. This device will introduce students to different styles of programming, help deal with OOP and create their own gadgets.</p>
11	<p>Поляков Дмитрий, Третьякова Анастасия школа №1537 Класс 10 руководитель проекта – Музланова Е.С.</p>	<p>Studying Solid Geometry Using Virtual Reality Many students studying solid geometry (the geometry of three-dimensional space) have difficulty visualizing objects in three dimensions. In recent years, virtual reality has found application in e-learning. It provides an interesting and attractive view of the subject and students are more interested in studying. In this project, we suggest the method of using virtual reality for studying solid geometry in secondary schools. Our program will help people to develop spatial thinking using the technology of virtual reality.</p>



INNOVATIONS IN TRANSPORT AND ROBOTICS

(кабинет 46, 4 этаж)



1	Скворцов Дмитрий школа №1220 класс 10 руководитель проекта – Султанова Я. Н.	Automation and Robotics Once having realized the role and importance of automation and robotics in all aspects of life, the mankind will always refer to their benefits. Given the right tools, automating computer operations can be surprisingly easy and can reap major benefits. Understanding these benefits and some obstacles will help people develop support for an operations automation project. My research is devoted to undoubted benefits of automation and robotics and their influence on our society.
2	Кривошеин Алексей школа №1210 класс 7 руководитель проекта – Замарова Е. В.	Robots in modern life. To be or not to be is the question. The aim of this project is to investigate what role robots play in our modern world, what advantages and disadvantages they have got, and what fields of our life they can be used in. The practical task of my project is to make a prototype of robot helper from «Lego Mindstorms Ev3», which can give the elderly or disabled people an ability to open drawers and doors with their hands free.
3	Ерусланова Вероника школа №1370 класс 11 руководитель проекта – Матюсова С.В.	The Regulation of the Use of Fighting Unmanned Aerial Vehicles and Robots In recent decades, the world community has been concerned about the increasing use of military unmanned aerial vehicles and robots, which pose a serious threat to the preservation of peace and international security. There is no international regulatory framework governing the use of the UAV and systems of ARCS. That is why the main aim of my project is to develop the international normative-legal framework regulating the use of the UAV and systems of ARCS.
4	Бирюлин Никита Гимназия РУТ МИИТ класс 9 руководитель проекта – Голобокова Е. А.	The problem of movement of electric trains in the Leningrad direction Nowadays, the Leningrad Railway line has big problems with the movement of trains. That is why the main aims of my project are to collect statistics of passenger traffic in this direction, to study the current version of the schedule of suburban electric trains and to create an alternative version of train movement in this rail direction.
5	Брюзгин Дмитрий, Никитаев Михаил школа № 1580 класс 9 руководитель проекта – Герасимов А. В.	The problems of traffic organization and their reasons The research project is devoted to identification of basic problems traffic system in Russia as there are more and more cars each year. We submit and clarify different notions connected with traffic. Special attention is paid to drivers' attitude towards the downsides of traffic organization. The drivers' opinions which were derived from opinion poll were taken into account while establishing the measures which may help to deal with these problems.

6	<p>Ахмедов Рустам, Амелёхин Никита Школа в Капотне класс 8 руководители проекта – Кургинян А. М., Попырина Я. В.</p>	<p>On the roads of Great Britain and Russia. Here is not there. Nowadays the problem of roads is one of the most pressing problems in Russia, since roads are one of the most important elements of the state's infrastructure. The degree of development of the road network directly depends on the economic prosperity and defense capacity of the country. The purpose of this work is to study the quality of roads in Russia and the UK. To achieve this goal, we compare the traffic organization and the economy of the roads of two countries.</p>
7	<p>Бойчук Алевтина, Федина Рината школа №1537, класс 10 руководители проекта – Музланова Е. С., Давшиц С. Н.</p>	<p>The Development of a Road Marking Robot With the intensive increase in the proportion of people living in cities, the quantity of automobiles on roads also increases. Previously line markings and symbols such as directional arrows, speed limits and pedestrian crossings were painted by hand, which now leads to road blocking and accidents. That is why the main aim of our project is to develop a version of a road marking robot, which will be more efficient than the present forms of road marking in Russia.</p>
8	<p>Желтова Анна, Ильина Дарья школа № 1499 класс 8 руководитель проекта – Кочулаева А. В.</p>	<p>The future of public transport stops Nowadays new technologies in the field of public transport are developing more and more intensively. The purpose of the project is to choose the most comfortable, safe types of public transport stops. That is why the main aims of our project are to analyze existing types of public transport stops, to conduct a survey to find out the requirements of passengers for public transport stops and to design a possible solution.</p>



INNOVATIONS IN MEDICINE AND SPORT

(кабинет 33, 3 этаж)



1	Куркотов Александр, Петросян Лилия школа № 1449 класс 7 руководитель проекта – Беличенко Н. Н.	The influence of music on our brain and mood For most teens, music is an amazing outlet for personal identity development and expression. Music can help youth relax and manage their moods and provide ways to connect with peers. Some people say that they are used to working or studying to the sound of music, while others are convinced that music is a distraction. That is why the main aim of our project is to discover the influence of music on our mood and brain.
2	Дубовик Софья школа № 1381 класс 9 руководитель проекта – Печугина Е. В.	The influence of the contemplation of the starry sky on the disclosure of human`s spiritual world and his psycho-emotional state The human psyche becomes unstable in today's rapidly developing world. In my work, I tried to find a way out of this situation and to help a person normalize his psycho-emotional state. Based on my research, I would like to propose a theoretical basis for the "using" of the starry sky in medicine with the method of "star sky training" and creation of a new section "astropsychological conversion science" as one of the sides of integrative psychology.
3	Волкова Валерия школа № 1411 класс 10 руководитель проекта – Горелова Е. Н.	The therapy of colour palette Light is the purest healing force in the universe. Color has a profound effect on our mood and emotions. Color is absorbed by eyes, skin, etc. The energy of color and light affects us on all levels: physical, spiritual and emotional. Every cell in the body is in great need of light energy. Together with conventional medicine Color Therapy treats patients even from incurable diseases. People have to realize how to use Color Therapy in an appropriate way.
4	Маркушов Никита, Вальверде Карлос школа № 281 класс 8 руководитель проекта – Хаметова И. С.	The importance of steroids in sportsman's life Using steroids is very fashionable nowadays not only in professional sport but also among those who do sports as a hobby. We study the classification of steroids and their effect on sportsman`s life and health, conducted the experiment and showed our results in practical part of the project.
5	Полунина Анастасия Гимназия РУТ МИИТ класс 8 руководитель проекта – Голобокова Е. А.	The development of prosthetic limbs Prostheses let disabled people do different things and give them a normal happy life. In the project I review the development of prostheses of limbs from ancient times to nowadays and some companies that make them. I make a research to prove that limb prosthesis improved in course of time. The research is based on the Paralympics records.
6	Бурцева Анастасия, Литовченко Анна школа № 1568 класс 8 руководители проекта – Фролова О. Е., Сафронова Н. И., Янова Е. П.	Training shoes or what technologies provide their comfort As our lifestyle today is rapidly changing, lots of people choose to wear training shoes in their everyday life. These shoes are practical, multi-purpose, comfortable and wear-proof. However, most people pay attention only to the physical appearance of the training shoes and don't use all the functions provided by such shoes. The aim of our project is to create a model of training shoes using the most efficient and safe technologies and materials to provide comfort thereof.

7	<p>Бахреман Амир, Бунделев Михаил ОАНО "Лучик" класс 7 руководитель проекта – Сливина С. Ю.</p>	<p style="text-align: center;">New technologies and PE lessons</p> <p>Currently, the educational process is actively creating the opportunity to use modern technologies. The urgency of using modern technologies in PE lessons is determined by the special role of a healthy lifestyle at the present stage of development of mankind as a whole and of each individual pupil in particular. This implies not only the introduction of the results of intellectual activity at PE lessons, but also the formation of positive motivation for the learning process as a whole.</p>
8	<p>Лацейко Екатерина, Гагарина Евгения школа № 1449 класс 8 руководители проекта – Чернова Л. Н.; Железнякова Ю. В.</p>	<p style="text-align: center;">Milk to study for fat, protein and lactose</p> <p>We think milk is useful for a healthy person. But some scientists believe that milk is a product that is poorly absorbed by our body. We decided to investigate whether milk is harmful or beneficial. That is why the main tasks of our project are to study properties, functions and components of milk; put a chemical experiment to detect fats, proteins and lactose; make recommendations for milk consumption; conduct a survey among the students of our school of milk consumption.</p>
9	<p>Звягинцева Елизавета школа № 1747 класс 8 руководители проекта – Филимонова Е. Н., Семенова Н. Я.</p>	<p style="text-align: center;">Yogurt is a healthy treat, isn't it?</p> <p>The purpose of my project is to study the composition of yogurt, determine the presence of starch in the product. I studied the history of the appearance of yogurt, determined the useful and harmful properties of yogurt, studied the composition of yogurt for the presence of food additives and determined the starch content of yogurt.</p>
10	<p>Гурьянова Наталья, Костромской Федор школа № 1449 класс 7 руководители проекта – Перлина Л. А.; Железнякова Ю. В.</p>	<p style="text-align: center;">Detection of nitrite anions in sausage products</p> <p>It is known that there is the necessity of using nitrite anions as preservatives, colour and odor stabilizers in the production of sausage products. However, these nitrite anions have toxicity and carcinogenic properties. We assumed the research hypothesis that sausage products can be really harmful if they are often eaten. That is why the aim of our project is a comparative analysis of nitrite anions in sausage products of different manufacturers.</p>
11	<p>Минина Лалита школа № 1538 класс 9 руководитель проекта – Кузнецова Т. Е.</p>	<p style="text-align: center;">Is It Difficult to Be a Vegetarian in Russia?</p> <p>Vegetarianism used to be an unusual lifestyle choice. Today it is becoming more common. While there are many reasons for choosing a vegetarian diet, the most important are health, environmental, economic, and, above all, ethical reasons. In my project I'll try to arise some of the problems of people who has chosen to be a vegetarian, find the reasons for the difficulties they face and provide some possible solutions for them.</p>



ENVIRONMENTAL PROBLEMS

(кабинет 47, 4 этаж)



1	<p>Царькова Дарья, Прежежецкая Марина школа № 1411 класс 9 руководители проекта – Богомолова Е. В., Хохлова Е. А.</p>	<p>The Nuclear-free Future of the Arctic</p> <p>The purpose of our project is to trace the direct relationship between the conventional ecological processes of global warming and melting of ice cap in the Arctic, which will inevitably lead to reopening of nuclear waste storage in the Novaya Zemlya archipelago. We carried out a comparative research analysis of current data on the rate of ice melting and spread of nuclear pollution in the Arctic.</p>
2	<p>Герашенко Ольга Новожилова Юлия школа № 709 класс 8 руководитель проекта – Шкитина Л. В.</p>	<p>Effects of carbon dioxide on the environment and human health</p> <p>Few people know that CO₂ health effects and benefits for the human body are innumerable. Clean air outside the city contains about 0.04% carbon dioxide, and the closer the CO₂ content in the room to this figure, the better the person feels. The presence of CO₂ can change our biochemical processes. This issue has been discussed for many years around the world which led to the emergence of some contraindications to the consumption of sparkling water in any form.</p>
3	<p>Поспелова Татьяна школа № 444 класс 6 руководители проекта – Мальцева А. В.; Мальцева Е. Ю.</p>	<p>Investigation of Russian and English weather signs in modern conditions</p> <p>I have provided the comparative analysis of Russian and English weather signs in modern conditions and have analyzed the physical phenomena they are based on. The reliability of weather signs has been checked out in practice. I have studied the impact of the environmental situation on the ineffectiveness of some of them. I have formulated recommendations on the most reliable nowadays signs to increase the reliability of weather forecasts and have created educational games for children in two languages.</p>
4	<p>Мурашова Екатерина школа № 544 класс 9 руководитель проекта – Тюрина В. В., Протасова И. В.</p>	<p>Environmental Issues of My Home City</p> <p>The aim of the research project is to motivate people to think over improving the ecological situation in Moscow and take part in environmental activities. The project states the most important environmental issues concerning Moscow. The solutions of some of the problems are considered. The author makes conclusions about the ways of improving the ecological situation in Moscow and developing people's responsibility for saving the environment.</p>
5	<p>Паксейкина Анастасия, Едкова Ксения Школа № 1413 Класс 10 Руководители проекта- Большакова М.В., Ширяева М.Ю.</p>	<p>Local landmark is in danger</p> <p>There are lots of ecological problems nowadays and they are much talked about. For example, our local attraction - Bibirevo Ethnographic Village and the Chermlyanka river. During the research we investigated the problem of water pollution there. We did some special tests and found the source of pollution. The pipe releasing the waste was closed. It was a success. This way we managed not only to find a source of pollution but also to stop it.</p>
6	<p>Галдин Олег, Шастов Антон школа № 1158 класс 8 руководитель проекта – Алиева С. С.</p>	<p>WATER - is it the springs of life?</p> <p>Water resources of our country have been declared the most essential resources of the future. That is why the aims of the project are to carry out a survey of the quality of tap water in Northern Chertanovo residential district as one of the most important factors that affect the health of people who live in this district, to conduct an experiment in order to find the way of improvement of quality of water.</p>

7	<p>Тимофеева Александра школа № 1080 класс 7 руководитель проекта – Серeda Н. В.</p>	<p style="text-align: center;">Ecological Education of Schoolchildren</p> <p>The aim of the project is to find out if cartoons can be a way to get ecological education. The project gives a detailed account of getting ecological education through cartoons watching. Special attention is devoted to the cartoons of Russian and foreign production. There was analytical work in order to find the cartoons in which the problem of ecology is touched upon. The work presents a list of cartoons as a recommendation for children to watch.</p>
8	<p>Тулик Анастасия, Чумакова Евангелина школа № 1381 класс 9 руководитель проекта – Архипова И. Н.</p>	<p style="text-align: center;">The Problem of Collecting and Disposing of Batteries</p> <p>Having faced the problem of recycling batteries, we found out that incorrectly recycled batteries do a lot of harm to the environment and human health. So we organized the action "Bring a battery—Save the Nature" in our school. As a result, 4187 batteries were collected. In the future, we will send the batteries for recycling and carry out this action in the complex № 1381.</p>
9	<p>Соколова Александра Фролова Элеонора школа № 1582 класс 10 руководитель проекта – Кискина М. А.</p>	<p style="text-align: center;">Our Eco Carbon Footprint for one day</p> <p>The project is devoted to the study of the ideal footprint of CO₂ in one day. We deal with three spheres of our everyday life that have the biggest impact on global warming - water usage, rubbish, transport. The work reflects the problems of CO₂ emissions and its effects on environment and the reasons of irrational nature management. We make experiments and compare the results of CO₂ emission of each other and calculate the ideal CO₂ in one day.</p>
10	<p>Рыбин Георгий Гимназия РУТ МИИТ класс 10 руководитель проекта – Голобокова Е. А.</p>	<p style="text-align: center;">Environmental, economic and social aspects of energy saving</p> <p>People have been facing environmental problems for decades. We continuously strive forward, making huge breakthroughs in science and technology. But sometimes new technologies carry the destructive power. The most important problem in this sphere, I think, is the problem of energy. The aim of the work is to prove that the energy sector, without which a modern person cannot do, must meet all the requirements for environmental protection and more efficient use of energy resources.</p>
11	<p>Сухих Анна, Садыкова Виктория школа в Капотне класс 7 руководители проекта – Трофимова Т. Н., Васина Ю.С., Селищева Е. Д.</p>	<p style="text-align: center;">We save water. And you?</p> <p>The main goal of the project is to organize the activities of school students aimed at studying the use of water in the school and developing ways to save it. In this study, firstly, the main sources of water consumption in the school were determined; secondly, an action plan for the rational use of water in the school was developed and at the end of the project the amount of water used was calculated.</p>