



DIGITAL TECHNOLOGY IN EDUCATION

(АКТОВЫЙ ЗАЛ, 4 ЭТАЖ)



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| 1 | Жеенкулова Мария, Карпова Полина школа № 1416 класс 8 руководитель проекта – Федяева Н.О. | The technology of knowledge system creation The difficulties of extracting knowledge and getting it out of textual sources have stimulated the development of methods for the formation of knowledge, known as machine learning methods. The ability to learn is to create new knowledge based on the current, its own experience in dealing with applications is their essential characteristic. Automatic systems of knowledge creation are preferred. The main question is: how to go from the particular to the general? The answer is to use the innovation. |
| 2 | Киселев Даниил, Чернышов Даниил школа № 166 класс 9 руководитель проекта – Сливина С.Ю. | Advantages of interactive learning tools at school Computer tutorials, systems based on multimedia technologies, intellectual and educational expert systems, means of communication have shown themselves to be successful in educational process. Today, the school is most effective when lessons are interactive. Our goal is to develop interactive training manuals for use in the classroom and in extra-curricular activities in English. The material will help to increase the motivation of students. |
| 3 | Кузнецова Анастасия школа № 1416 класс 8 руководитель проекта – Петрова Н.В. | Use of mobile messengers in education Article considers the current state of electronic education, its key features. The reasons of messengers' popularity, their characteristics, and advantages and disadvantages of its use in educational process are given. Another attention is given to chatbots. It is noted that popularity of modern messengers is mostly defined by its API that allows creating bots on their basis. An example of Telegram messenger chatbot for training of solving of quadratic equations is given. |
| 4 | Безделов Артем школа № 1409 класс 8 руководители проекта – Бойко Э.Н., Вегеле С.А., Колесник И.А. | Interactive multimedia presentation with VBA elements «Exploit or betrayal of Russian expeditionary regiments of the First World War» The project is devoted to the role of the Russian Expeditionary Force in the First World War. The relevance the project topic is provided by the following facts: 1) the need of the society to form trustworthy historical picture of Russian participation in the World War the First; 2) an increased interest of younger generation to studying little-known pages of history of The First World War. |
| 5 | Кукушкин Денис школа №1537 Класс 11 руководители проекта – Шевченко М.В., Музланова Е.С. | Atomic constructor In many schools, the study of chemistry begins in the 7th or even 8th grade, but some schools practice the introduction of chemistry as a subject from the 5th or the 6th grade. Children are told about quite complex matters, such as atomic structure, different substances and their interaction, with the help of pictures and everyday examples. My program will explain these concepts in an entertaining way whereas the practical part will help kids to check their knowledge. |
| 6 | Масликова Анна, Цыганкова Валерия школа № 1637 класс 10 руководитель проекта – Котенева И.В. Рыбаулина О.В. | The 3D - technologies in education. A working out of the learning board game for partially sighted preschool children The creative project of pupils of Gymnasium 1637 is devoted to 3D - technologies in education and a working out of the learning board game for partially sighted preschool children (5-7 years). A main objective of work - creation of a board game based on A. M. Volkov's work "The wizard of the Emerald city" (with use 3D - modeling and 3D - printing). |
| 7 | Алекберова Айшан, Петрухина Ирина школа № 902 класс 11 руководитель проекта – Казакова А.А. | The problems of modern cinematography. Where is the morality? Our project is devoted to such an important problem of our society as modern cinematography. The goals of our research are: 1)-to study the general information on this question; 2) to suggest some ways how to reduce the negative influence on people; 3) to demonstrate the results of our practical work on this project. The authors of this project conducted 2 surveys among the teenagers of our school, made a film. |



INNOVATIONS IN TRANSPORT AND CITY MANAGEMENT

(кабинет 26, 2 этаж)



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| 1 | Бояринов Григорий школа №1416 класс 9 руководитель проекта – Федяева Н.О. | Raw material or innovation economy? While innovations always gave acceleration to development of the industry and economy, the term “innovative economy” was widely adopted since the end of the 20th century. The sector of innovative economy appeared in the industry of the advanced countries since the first scientific and technological revolution and since then it turned into the dominating economy sector with high technologies and high performance of work. |
| 2 | Кембель Александр Гимназия МИИТ класс 8 руководитель проекта – Мартынцева Е.В. | Skyscraper farming as a solution of the problem of food shortages The project is dedicated to the question of solving the growing problem of food shortages within the modern consumer society. An innovational solution to the food shortage problem is considered. The author highlights and describes features of the given farming method. Special attention is paid to particular advantages and disadvantages of vertical farming. |
| 3 | Заворотынская Александра Гимназия МИИТ класс 9 руководители проекта – Белозерова О. М. Голобокова Е. А. | Public transport systems of Moscow: their characteristics and compliance with requirements Moscow needs such transport system that would be perfect for all the citizens. I have found out that nowadays metro is the best candidate to become the main transport of Moscow. However, Moscow metro is seriously overcrowded. I proved that it is impossible to improve the situation by increasing the number of trains running every day. Government should modernize carriages and build new stations in order to lighten metro traffic. |
| 4 | Башкирова Софья, Платонов Влад школа № 1449 класс 8 руководитель проекта – Чернова Л.Н. | The Research and Comparison of Technological Innovations in Moscow Metro and London Underground Moscow is growing and becoming more beautiful and modern, develops huge projects, bears enormous plans, implementing them into life in record time, giving more reasons to compare it with European capitals. Thus, the aim of our work was to study and compare the modern technologies used in the construction of the subways in London and Russia. |
| 5 | Нестерова Полина, Шимановский Андрей школа № 1449 класс 8 руководитель проекта – Перлина Л.А. | Sports means of transport in the life of a modern teenager To cope with the problem of traffic jams and to improve ecology of our megalopolis the Moscow authorities have begun to popularize the bicycle as an urban means of transport. The aim of our project is to study history of invention and improvement of modern sports means of transport, which have become popular with the residents of our city, and design convenient and interesting routes to ride through the city center and our neighborhood. |
| 6 | Сенин Леонид школа № 1416 класс 11 руководитель проекта – Федяева Н.О. | Outlander’s economy KAMAZ is the largest producer of heavy trucks in Russia. The company occupies 14th place in the world for the production of heavy trucks. That’s 33% of the Russian market. KamAZ trucks are exported to 43 countries. In 2015 there were sold 29000 trucks that is 25.6% less than in 2014 (39 000). |
| 7 | Рыбин Георгий Гимназия МИИТ класс 9 руководитель проекта – Голобокова Е. А. | Unmanned aerial vehicle In the view of most people, unmanned aerial vehicles represent a more complicated version of radio controlled model airplanes. However, the functions of these devices have recently become so diverse that it’s impossible to confine this look to them any longer. In the last decade, they have developed something of a fashion. |
| 8 | Клементьева Ольга, Погодина Вероника школа № 902 класс 11 руководитель проекта – Казакова А.А. | Don’t stay indifferent! We want to draw people’s attention to the problems of animal shelters in Russia. The main goal of our research is to awaken the kindness in our hearts towards homeless animals, eliminate cruelty and indifference to them. The authors did a research in this field, made a film and fliers to prove that shelter animals need our care and support. All of these will be useful for the people who do not want to stay indifferent to the problem. |



INNOVATIONS IN MEDICINE AND SPORT

(кабинет 29, 2 этаж)



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| 1 | Величко Богдан школа № 118 класс 10 руководитель проекта – Малюкина Е.В. | Innovative technologies in medicine In this project, we will show that technological progress doesn't stand still, how it makes people's activity easier, more productive. The aim is the analysis of innovation in modern healthcare and the prospects of further development. It was necessary to solve various tasks: to consider, compare the changes in the health sector, to explore innovative technologies in medicine, to systematize the acquired knowledge in society. |
| 2 | Беспалова Алина, Мамедова Наргиз школа № 1002 класс 11 руководители проекта – Белогорцева Е.В., Безматерных Т.Л., Скорятин И.В. | Complex assessment of adolescent health functional state taking into account their genetic characteristics The research work is related to the adolescent health analyzes. The work presents individual recommendations for the test participants to provide an effective self-control system, based on feedback technique. This approach allows adjusting the key body system work arresting both abnormal and prepathological symptoms of diseases against the background of complete exclusion of drug therapy. |
| 3 | Мстоян Муса, Лизак Анастасия школа № 1416 класс 9 руководители проекта – Гайдук Т.В., Заграбчук К.В. | The investigation of spinal curvature problems in school-aged children Fault in posture in school-aged children contributes to the emergence of serious problems in future. Spine loads in the sitting position are increasing and the baby's spine is getting "tired". In the project we have studied the medical records of the students of our school and found out the number of pupils with faults in posture. We have created a set of exercises for the prevention of spinal disorders and have studied innovative methods of treatment of the spine. |
| 4 | Вергелис Мария, Заволока Дарья Юджин – центр класс 8 руководители проекта – Платонычева О.В., Ми- шина И.Н., Савинкова Т.В. | Smoking influence on the human's body Smoking is one of the most popular forms of the toxicomania. It makes influence on all people, both on adults and on children. Smoking leads to disease and disability and harms nearly every organ of the body. Aim of the work is to find harmful materials in cigarettes and to understand influence of nicotine on the growth of seeds and to prove bad influence of the cigarettes on the human. |
| 5 | Горбачева Анна школа № 1568 класс 9 руководители проекта – Савченко В. Л. Андреанова Г. Г. | Vaping and its influence on human health and modern social life Recently our world has witnessed electronic cigarettes being invented and having become popular. The aim of our research is to study the subject of e-cigarettes and conclude how they influence our health. We investigated the difference between smoking and vaping. We also analyzed how vaporizers work, tried to understand why vaping movement had become widespread. Our survey helped us conclude how our organism is influenced by personal vaporizers and work out some recommendations to active and passive vapers. |
| 6 | Фирсова Ольга, Волхонская Ольга школа № 324 класс 8 руководители проекта – Платонычева О. В. Волкова В. А. | Packaged milk: to drink or not to drink? The debate about the benefits and dangers of milk does not cease for many years. Most experts are inclined to the fact that milk is a very useful product and may do harm only in some particular cases related to physiological characteristics of the individual. Regular consumption of milk can protect the body from many diseases, including cancer. Various institutions have conducted numerous studies of milk that reveal new useful properties of this wonderful product. The stores offer a wide range of milk, but is it possible to drink it? |
| 7 | Перхунков Данил школа № 1416 класс 10 руководитель проекта – Федяева Н.О. | The role of innovation technology in medicine and sport History teaches us that a development of sport is the objective and natural process in the life of society. The history shows the way of development of different steps of human changes that take place in the physical culture and sport sphere because of the influence of production process, politics, culture and science. With innovations sport and medicine will never be in stagnation, will be claimed all over the world forever. |
| 8 | Кудрякова Динара школа № 1412 класс 10 руководитель проекта – Пшеничникова Т. И. | Innovations in football that already exist and may be introduced in the near future My main target was to understand what kind of innovations are already successfully used in the field of football. From my point of view, the best way to do it was to ask my classmates about their opinion to this theme, but I went little further and almost ask 40 people in social nets to take part in my interview. I was wondering what they think about new technology in football that I have recommended. As it turned out, they are pleased with my idea. |
| 9 | Коваленко Артём, Спирин Иван школа № 1449 класс 8 руководитель проекта – Полякова А.А. | The increasing popularity of floorball among teenagers Floorball is a very popular sport around the world. We want to find out if this game is popular in Russia. The aim of the research is to create conditions for promoting floorball in our school. The project consists of two parts. The first part describes the history of floorball, its values and rules. The second part has a social survey which shows the level of popularity of floorball in our school. To promote floorball in our school we create a poster and a video as well. |



COMPUTERS, AUTOMATION AND ROBOTICS

(кабинет 45, 4 этаж)



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| 1 | Фролова Мария гимназия МИИТ класс 9 руководитель проекта – Голобокова Е. А. | Modern technologies in our life In contemporary world people can hardly imagine their lives without modern technologies. Every day either a new gadget is invented or an old one is improved. Different people appreciate inventions differently. Some suppose that sophisticated gadgets are really useful and necessary, while others find them absolutely awful as they badly influence people. As for me, I am pretty sure that gadgets make our live easier. |
| 2 | Шаров Георгий школа № 1905 класс 10 руководитель проекта – Болотова Е. Р. | The impact of computer games Computer games have become an integral part of our life, It is common knowledge there is some negative impact of such activities but no exact data is actually available on the issue. So, George Sharov, a tenth class student, has made an attempt to analyze the issue of computer games. A survey has been conducted in school 1905 to find out if computer games' playing has a really bad influence on modern pupils. |
| 3 | Берлизова Елизавета, Берлизов Петр школа № 1223 класс 6, 4 руководители проекта – Ходарина Е.И., Корнеева Е.В. | Cyber security The majority of kids today are constantly online, use social networks, games etc. Still there is very little information about online rules and responsibilities. We strive to close this gap. The main goal of the project is to increase awareness of kids about threats and opportunities related to social networks, learn how to understand and detect risks, learn how to behave responsibly online. |
| 4 | Алиулов Амир школа № 1210 класс 8 руководитель проекта – Быкова Е. О. | Internet security. How to save your information In our modern society more and more people are expecting issues with files and Internet Society. So in my project I'm going to describe some protective measures and precautions. There are some ways to protect your data. Firstly, I'd like to tell you about Internet Security. You should notice suspicious sites. In my project I will tell you how to notice and avoid them. |
| 5 | Аветисян Мане школа № 1506 класс 10 руководитель проекта – Макаева Ю.В. | Information security of telecommunication systems The purpose of this project is to remind administrators, computer security officials and common users to understand how important it is to provide safety to telecommunication systems as for the last few years the number of information attacks has increased. Almost any telecommunication system can be an object of information attacks. The project provides a description of general security threats and how to plan and implement security policies and controls for often-performed computer security activities. |
| 6 | Резниченко Ярослав лицей № 1537, класс 11 руководители проекта – Минченко М.М., Великородная Л. А | Hardware and software complex of space monitoring of emergencies The aim of the work is creation of hardware-software complex that provides automation for timely detection of emergency situations in the form of fire in the controlled area (areas of open countryside, forests, small settlements, etc.) by calculating the coordinates of a fire and ability to transmit corresponding information to the dispatcher service. |
| 7 | Блохина Анастасия, Леонов Александр школа № 1355 класс 10 руководитель проекта – Авилова А.И. | Robotics In the not so distant past people only dreamt about robots, read about them in books or saw them in movies. Now robots are an integral part of our lives. Today robots are replacing humans in the chemical industry and in scientific laboratories; in areas with high levels of radiation; on the seabed during construction work and scientific research and even on the moon. In this project, we stated the definition of robotics and its development. You will learn about new inventions and advances of human industry-the construction of robots. |
| 8 | Штыркова Екатерина, Хаустов Павел школа № 2083 класс 11 руководитель проекта – Мусаилова Р.Г. | Will Robots Replace Humans? The question of robotics is rather relevant today, and due to this fact we tried to research the functions that robots can perform in our modern life. This project shows the brief history of robotics, types of robots and kinds of jobs they perform. Besides, the main question of our work is to find out if robots will replace humans in future or not and what jobs should be chosen by modern teenagers. |



ENVIRONMENTAL PROBLEMS

(кабинет 47, 4 этаж)



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| 1 | Каламин Даниил школа № 1411 класс 10 руководитель проекта – Богомолова Е.В. | Close and Distant Arctic Objectives: receiving evidence of the interdependence of global warming and ice melting; accessing new information on the change of Arctic islands and continental margin of the ice cover; obtaining confirmation of the hypothesis that the island of Sannikov's Land was "edom"; making analysis of the mutual influences of the North of the Arctic environment on the lifestyle and traditions of the peoples of these regions. |
| 2 | Волчкова Екатерина школа № 1381 класс 8 руководитель проекта – Архипова И.Н. | The Problem of Ocean Pollution Nowadays the issue of ocean pollution is an incredibly urgent ecological problem. That is why, being interested in solving ecological problems, I would like to study this subject. The purpose of the work 'The Problem of Ocean Pollution' is to study the reasons for ocean pollution with the help of various research works of modern scientists and to combine the results of this study with the results of my questionnaire, conducted at school. |
| 3 | Сергеева Марина школа № 281 класс 11 руководители проекта – Епифанова И. А., Мыльникова И. Н. | Ecological Situation of Moscow People think that the city is a symbol of civilization. It's believed that a city is a place opposite nature so they can't get along with. That's wrong, because a city is a product of humanity, and humanity is a large part of nature. It's obvious that people shouldn't contrast with nature, they should care about it. That's the main point of urban ecology. I tried to reveal that idea using the ecology situation of my hometown, which I like and care as much as I can. |
| 4 | Токарев Александр, Андронов Максим школа № 1416 класс 10 руководители проекта – Гайдук Т. В. Котелкина Л. В. | Studying the level of air pollution in Moscow by method of chemical analysis of snow samples In recent years ecological problems have been attracting more and more attention of people of different professions and occupations. Our project is devoted to level measuring of air pollution in our city. The measurement of air pollution requires complicated and expensive equipment. So, snow has become a subject of our research because it is a strong absorbent. Even in fresh snow you can find exhaust gas and ions of different metals. For testing integrity we have used only fresh snow to prevent further emission of metal salts from the soil. |
| 5 | Литовченко Анна, Толмачева Полина школа № 1568 класс 7 руководители проекта – Фролова О.Е., Янова Е. П., Сафронова Н. И. | Impact of deicing agents on plants Slick roads are one of the most important winter problems that can cause accidents and injuries. To solve this problem deicing agents have been used for several decades already. The aim of our research is to investigate the impact of different deicing agents on the plants. In course of our project we studied the history of deicing materials, investigated the chemical composition thereof, conducted a research of their impact on plants, analyzed the results of our research and developed a List of recommendations for environmental specialists and road service specialists. |
| 6 | Курков Руслан, Тарасова Милана школа № 1449 класс 7 руководители проекта – Перлина Л. А.; Железнякова Ю. В. | Detection of nitrate anions in autumn and winter vegetables and fruit The topic of our research work is relevant as it deals with the fact that during the whole year we eat fresh vegetables and fruit which are mostly grown up in artificial conditions. Whether they contain excess concentrations of nitrates which can do harm to our health causing various diseases including cancer. So, the aim of our research work is detection and comparative analysis of amount of nitrates in autumn and winter vegetables and fruit and compilation of recommendations on the safe use of vegetables and fruit. |
| 7 | Макарова Ольга, Емельянов Гопал Школа ГПБОУ ТК № 21 Класс 9 Руководители проекта- Егорова Т.В., Соловей М.А. | Ecological path - from idea to project The survey of Moscow schoolchildren has shown that children do not distinguish a spruce from a pine, do not know examples of the main species of deciduous and coniferous trees of our band. But environmental education begins with acquaintance with the objects of the nearest environment. Thus was born the idea to design and build a nature trail on our school site for further use in curricular and extracurricular activities. |
| 8 | Романенкова Кристина школа № 1506 класс 9 руководители проекта – Орлова Е.В, Ильина Н.С. | Eco-trail "Let's explore the Yauza!" We have been creating this project for more than two years. Together with my friends we have worked out the tasks and the route of our ecotrail for the primary schoolchildren. Now we are ready to share the results of our work with you. We have created a Google map of the project and have placed the tasks and the route on it. Because we think all the materials should be available for everyone, so that any interested person can create his own similar project. Or simply gain inspiration! |



ENVIRONMENTAL MANAGEMENT

(кабинет 46, 4 этаж)



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| 1 | Чебакова Людмила, Орлова Ксения школа № 118 класс 10 руководитель проекта – Малюкина Е. В. | Ecology and environmental management The work is the consideration of problems and solutions of ecology and environmental management. The topic's relevance is the interaction between men and nature, the threat of imbalance between them and maleficent changes in society. We've given the characteristics of the environmental problem and considered the rational nature management's problem, the environmental safety's problem, analyzed and studied the socio-economic aspects of ecological problems and environmental management's problems. |
| 2 | Шитова Надежда, Легостаев Максим школа № 1355 класс 8 руководитель проекта – Авилова А. И. | Ecology and environmental management Nature is the habitat of man and the source of all wealth necessary for him for life and production activities. Man is part of nature, the offspring it can produce, only using its resources, and live only for in the natural conditions to which it is genetically adapted. Many years striving to conquer nature and dominate it, man suddenly found himself on the brink of the ecological disaster. There is hardly a more important global issue in our days than rational use of natural resources and environmental protection. Environmental management is the use of natural resources, so understanding this problem, we will initially focus on the natural resources. |
| 3 | Пышкова Маргарита школа № 1416 класс 9 руководитель проекта – Федяева Н.О. | A new role of the raw material companies Today in the world economy Russia plays a role of raw materials exporter and the importer of consuming and investment goods and services. What's wrong with this model of development and what are the alternatives? Raw economic development model cannot provide neither high rates of growth of the welfare of the people, nor the macroeconomic stability or the international competitiveness of Russian companies or to Russian national security. Therefore, Russia should turn to the "non-oil" economy model. |
| 4 | Капирсов Михаил школа № 118 класс 10 руководитель проекта – Витько М. А | Recycling as a business in Moscow The project involves the study of the situation on recycling in Moscow. The aim of the project is to draw attention to hazardous waste. The author proposed to adjust the system of garbage disposal and the separation of all solid waste with subsequent processing. The project involves the construction of processing plants (stations). |
| 5 | Александрова Екатерина, Филиппова Марина школа № 2107 класс 9 руководитель проекта – Пискунова М. Е. | Simple ways to save our planet from rubbish The project is about the problem of littering. With the inevitable rise in population and industrialisation, this problem will be further aggravated. The authors studied how different countries have solved the problem, they have analyzed things which people created from rubbish and offered the ways to solve the problem. They described what we can do right now to start helping our planet. The result of the research is a master class. |
| 6 | Гордеева Анастасия школа № 1537 класс 10 руководитель проекта – Музланова Е.С. | Bacteria come to help Nowadays environmental protection forces agricultural industry to stop using chemical fertilizers. On the contrary, biofertilizers provide "eco-friendly" organic agro-input. However, not all manufacturers are sure that biofertilizers can increase crop productivity as much as chemical fertilizers. The primary aim of the project is to prove that biofertilizers are able to protect and stimulate plants better than chemical fertilizers, pesticides and herbicides. |
| 7 | Арутюнян Диана, Анна Киселева школа № 1532, класс 8 руководители проекта – Платонычева О. В. Тимофеева М. С. | Juice from the carton: what is hidden inside it Today on the shelves you can find a lot of different juices in cartons. The producers of these juices are trying "to push" them through advertising. But does it make any sense to spend money on "natural juices" and "nectars"? How much of natural ingredients do they contain or do they have any? The question is, "Is the juice from the carton useful?" |
| 8 | Уварова Вероника гимназия МИИТ класс 8 руководитель проекта – Мартынцева Е.В. | Is a responsible shopper connected to green issues? This article deals with the question of social responsibility of the buyer in order to preserve the environment. The idea of the development of the industrial relationships between employers and employees was proposed by an author. The attention was mostly considered in illiterate purchase and sale and its influence on the atmosphere, inhabitants of the Earth and manufacturing. |



INNOVATIONS IN ART, CULTURE AND ARCHITECTURE

(кабинет 22, 2 этаж)



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| 1 | <p>Кубасов Александр школа № 1416 класс 8 руководитель проекта – Федяева Н.О.</p> | <p style="text-align: center;">Art in the modern world</p> <p>Innovations in all sectors of the economy are associated with the creative process. Innovations in the field of culture give impetus to innovation in other areas, both directly contributing to the development of such activities as architecture and art, and indirectly, to form behavioral patterns of consumers in the world of work and rest. The human factor is the essence of cultural areas and it plays an important role for building human capacity through education and training of those who are focused on innovation.</p> |
| 2 | <p>Иошина Полина школа № 1387, класс 8 руководитель проекта – Левадная Н. А.</p> | <p style="text-align: center;">Performance Art</p> <p>These days phenomenal and uncertain performance art gained popularity. Artists stop using traditional materials like paintbrushes, paints and canvas. They use their own body to illustrate their ideas. The subject of the project work would be appealing to those who take interest in art. We are going to find out what performance formula is. The goal of the project work is to make an attempt to create a piece of performance art work expressing an actual for the society idea – reading contributes to our development.</p> |
| 3 | <p>Королева Алина, Высоцкая Диана школа № 1449 класс 11 руководитель проекта – Беличенко Н. Н.</p> | <p style="text-align: center;">The influence of music on our brain and mood</p> <p>Choosing music instead of books or TV may make you more depressed. In our project, we also try to test the effect of music on memory and mood. This is the reason why we have chosen this theme. The hypothesis of the research: 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. The aim of the research work is to discover the influence of music on our mood and brain.</p> |
| 4 | <p>Золотухина Юлия школа № 1413 класс 10 руководитель проекта – Неделина Т. И.</p> | <p style="text-align: center;">Art and Technology: Mutual Cooperation or Fierce Rivalry?</p> <p>In our fast-moving world scientific progress is gaining momentum. Technology in all its manifestations covers almost all spheres of human activity; culture and art in particular is no exception. People indefatigably argue about possible consequences of such a mixture. As a result, humanity divided into two polar parts. The majority thinks that technology helps art develop and pushes its boundaries. The minority considers the impact of progress detrimental to creativity.</p> |
| 5 | <p>Афанасьева Полина школа № 1370, класс 10 руководитель проекта – Матюсова С. В.</p> | <p style="text-align: center;">3D Modeling is the Terra Incognita of the Medium of Visual Art</p> <p>Since STEAM (Science, Technology, Engineering, Art and Math) careers are becoming more and more popular, schools aim to provide their students with the latest technical equipment in these subjects. However, in most Russian schools pupils have no possibilities to create 3D models and to develop their versatile academic skills in different spheres, for instance in Art. The aim of my project is to develop some instructions to teach Art 3D modeling to pupils to help them realize their ambitions.</p> |
| 6 | <p>Сливина Наталия школа № 166 класс 9 руководитель проекта – Алпатов Т. М</p> | <p style="text-align: center;">Information technologies in architecture of my city</p> <p>In modern world technologies play the main role. With the appearance of 3D printer, a lot of new opportunities were opened for a better and more comfortable life. Technologies were successful-ly settled in life in building too. And what is the history of architecture? What are the modern means of building, opportunities, technology and soft practiced nowadays? I'm going to tell you about them.</p> |
| 7 | <p>Серая Валерия, Полухина Александра школа № 1387, класс 8 руководитель проекта – Левадная Н. А.</p> | <p style="text-align: center;">My School in Baroque Style</p> <p>Nowadays digital technologies are used everywhere, especially in architecture. We are going to study the role of Baroque style in people's life and imagine what our school will look like. Our project work describes what Baroque style is, when and where it appeared. Also, we made a model drawing of our school in Baroque style with the help of a computer and a graphics tablet for drawing! It will be interesting...</p> |



ENERGY EFFICIENCY AND CONSERVATION

(кабинет 23, 2 этаж)



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| 1 | Ерусланова Вероника, Селиверстова Юлия школа № 1370 класс 10 руководитель проекта – Матюсова С. В. | Green ICT Saving on electrical power consumption in order to reduce carbon dioxide emissions is the urgent problem to be solved. Today many people wonder if ICT is part of the problem ...or part of the solution. So the aim of our project is to find it out, to raise the environmental awareness of people in this sphere calling them for using electronic devices in a proper green way as well as give them several tips how to reduce power consumption of ICT equipments. |
| 2 | Бобылева Александра, Шелдяева Дарья школа № 1416 класс 8 руководители проекта – Комков Д. В., Мамаева Е. Н. | Energy conservation in big cities The problem of energy conservation in the cities is urgent all over the world. Moscow is one of the world's largest agglomerations that is compared with London and Paris. The aim of this project is to study the field of energy conservation technologies which are used nowadays. 2017 is declared as the Year of Ecology in Russia, so this issue is really significant. The country loses huge amounts of money because of the irrational use of natural potential. The research allows defining all areas of energy saving, which can be applied in Moscow and other regions of Russia. |
| 3 | Кокин Даниил, Евстратова Ольга школа № 1989 (1547) класс 10 руководители проекта – Бурак В. О., Боркунова О. М | The research of heat saving problem by means of a thermal imager As a result of the experimental studies, it has been proved that the thermal imager allows you to record the distribution of temperature and can be used to study heat-saving tasks. Authors have taken heat-photo of windows and doors. Recommendations to reduce heat loss and more efficient use of resources. Calculated economic model. |
| 4 | Александровский Егор школа № 1353 класс 8 руководители проекта – Липский С., И., Клюканова Н. А. | Wind turbine - alternative source of energy The aim of the project is to create a wind turbine for private electricity demand. The result of this work is a complete, compact, low-priced wind turbine model. It is fully environmentally friendly and can be installed inside ventilation or smoke shafts of tower blocks and private houses. It is capable of generating electricity for private household needs. |
| 5 | Савкин Максим лицей № 1537 класс 9 руководители проекта – Минченко М. М., Музланова Е. С | Development of a controller for the solar heating system The goal of the project is to create a controller for regulating the flow of warm water from the solar collector into the tank for conservation and further use for household needs. The project is aimed at providing warm water for people in remote areas with no central heating. This project will pay back the cost of buying the solar collector because its maintenance requires much less electricity than heating water in a heater tank. This project is beneficial for Russia as there is no mass production of controllers whereas the purchase of foreign controllers will be much more expensive. |
| 6 | Гербина Дарья, Сажина Анна школа № 1210 класс 10 руководитель проекта – Зеневич И. В. | Development of microbial fuel cell based on winogradsky column In modern bioenergy the idea of producing electricity using the natural processes is realized through the development of environmentally friendly, inexhaustible and cheap microbial fuel cells (MFCs). The purpose of the work is to create a MFC-based device that will help to cultivate different types of bacteria – Winogradsky column and electricity. On the basis of the Winogradsky column MFC was created and the density of 670 mV was produced. Electricity was accumulated by charging electric double layer capacitors (supercapacitors). The authors graphically conducted analysis of the data and formulated the conclusions. |