

Группа	217
Дата	8.11.2021
Время	11.10-12.00
Наименование УД/МДК/УП/ПП	Иностранный язык
Ф.И.О. преподавателя	Герасимова С.Н., Багдасарьянц И.В.
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Основная литература	Безкоровайная Г.Т. Planet of English: Учебник английского языка для учреждений СПО:
Тема	Тема: «Materials Science and Technology» Урок 17-18 Известные люди
Задание	<p><u>Прочтите и переведите текст</u></p> <p><u>Vocabulary:</u></p> <p>physicist -физик apprentice -ученик concept -концепция optical -оптический research - исследование permanent -постоянный current - ток to refuse - отказываться</p> <p>1. Michael Faraday, English experimental physicist, was born in 1791 in a poor family. The boy began to work as an apprentice at a bookbinder's shop at an early age. One day a man entered the shop and found the boy so interested in such a difficult subject and gave him four tickets for the lectures at the Royal Institutions.  2. The boy went to the lectures and made notes of what he heard. At the end of the lecture he came to Sir Humphry Davy, the great English scientist, and showed him his notes. Davy was surprised. Later he made Faraday his assistant and helped him in his education.  3. Faraday had many important discoveries. Among his works are the concept of the magnetic field and the magnetic “lines of force”, production of new kinds of optical glass, and research on electrolysis.  4. Faraday produced the first mechanical motion by means of a permanent magnet and an electric current. This is the principle upon which the modern electric motor is based. Faraday was very modest and he loved his work more than honors. He refused to become President of the Royal Society and also refused to be knighted.</p> <p>Выполните задания</p> <p>1. Find English equivalents to Russian words:</p> <p>ассистент опыт физик заметки образование сила</p>

	открытие ученый notes force scientist physicist education experience assistant discovery
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2. Are these statements true or false?

- 1) Michael Faraday, English experimental physicist, was born in 1795 in a rich family.
- 2) Sir Humphry Davy made Faraday his assistant and helped him in his education.
- 3) Faraday had many unimportant discoveries.
- 4) Faraday produced the first electric current.
- 5) He refused to be knighted.

3. Fill in the gaps:

Michael Faraday, English experimental ..., was born in ... in a ... family.

Faraday had many important ....

Faraday produced the first mechanical ... by means of a permanent ... and an electric ....

He ... to become President of ... and also refused to be ....

Faraday was very ... and he loved his ... more than honors.

4. Answer the questions:

1. Who was M. Faraday?
2. What were his discoveries?
3. What is the principle upon which the modern electric motor is based?
4. Do you consider that his discoveries are very important now?
5. Make a report about one of the famous scientists.

Группа	217
Дата	13.11.2021
Время	11.10-12.00
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Основная литература	Безкоровайная Г.Т. Planet of English: Учебник английского языка для учреждений СПО:
Тема	Тема: «Materials » Урок 19-20 Введение новых лексических единиц

Задание	<p>Прочтите и переведите текст и выпишите новые слова</p> <p><b>in recent years, scientific and technological developments have drastically changed life</b> on our planet as well as our <b>views</b> both of ourselves as individuals in society and of <b>the Universe</b> as a whole.</p> <p>Today, science and technology <b>are closely related</b>. Many modern technologies such as <b>nuclear power</b> and <b>space flights</b> depend on science and the <b>application of scientific knowledge and principles</b>. Each <b>advance in pure science creates new opportunities for</b> the development of new ways of making things to be used in daily life. In turn, technology provides science with new and more accurate <b>instruments for its investigation and research</b>.</p> <p>Technology refers to the ways in which people use discoveries to <b>satisfy needs and desires</b>, to <b>alter the environment</b>, to <b>improve their lives</b>. <b>Throughout human history</b>, men and women <b>have invented tools, machines, materials and techniques</b>, to <b>make their lives easier</b>.</p> <p>Of course, when we speak of technology today, we <b>are looking at it in a much narrower sense</b>. Generally, we mean <b>industrial technology</b>, or the technology that began about 200 years ago with the <b>development of power-driven machines, growth of the factory system</b>, and <b>mass production of goods that has created the basis for</b> our modern society. Today we often say that we live in <b>an age of science and technology</b>. <b>According to one estimate</b>, 90% of all the scientists who ever lived, were alive and active in the 1970-s. This <b>increased scientific activity</b> has brought new ideas, processes, and <b>inventions</b> in ever-growing amount.</p> <p>The <b>scientific revolution</b> that began in the 16th century was the first time that science and technology began to work together. Thus, Galileo, who <b>made revolutionary discoveries in astronomy and physics</b>, also built an improved telescope and <b>patented</b> a system of lifting water. However, it was not until the 19th century that technology truly <b>was based on science</b> and <b>inventors</b> began to <b>build on the work of scientists</b>. For example, Thomas Edison built on the <b>early experiments</b> of Faraday and Henry in his invention of the first practical system of <b>electrical lighting</b>. So too, Edison <b>carried on his investigations</b> until he found the carbon filament for the <b>electric bulb</b> in a <b>research laboratory</b>. This was the first true <b>modern technological research</b>.</p> <p>In a sense, the history of science and technology is the history of all humankind.</p> <p style="text-align: center;"><i>Topical Vocabulary</i></p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; vertical-align: top; padding-right: 10px;"> <b>science and technology</b>          наука и техника  <b>technology</b>          техника, технология  <b>- scientific and technological developments</b>          достижения науки и техники  <b>to drastically change life</b>          резко изменить жизнь  <b>a view of smb., smth.</b>          взгляд на кого-либо, что-либо  <b>the Universe</b>          Вселенная  <b>- to be closely related</b>          быть тесно связанным  <b>nuclear power</b>          атомная энергия  <b>a space flight</b> </td> </tr> </table>	<b>science and technology</b> наука и техника <b>technology</b> техника, технология <b>- scientific and technological developments</b> достижения науки и техники <b>to drastically change life</b> резко изменить жизнь <b>a view of smb., smth.</b> взгляд на кого-либо, что-либо <b>the Universe</b> Вселенная <b>- to be closely related</b> быть тесно связанным <b>nuclear power</b> атомная энергия <b>a space flight</b>
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	<p>космический полет</p> <p><b>application of scientific knowledge and principles</b></p> <p>применение научных знаний и принципов</p> <p><b>an advance in pure science</b></p> <p>прогресс в чистой науке</p> <p><b>to create new opportunities for smth.</b></p> <p>создать новые возможности для чего-либо</p> <p><b>an instrument for investigation and research</b></p> <p>инструмент исследований</p> <ul style="list-style-type: none"> <li>- <b>to satisfy needs and desires</b></li> </ul> <p>для удовлетворения нужд и потребностей</p> <p><b>to alter the environment</b></p> <p>изменить окружающую среду</p> <p><b>to improve one's life</b></p> <p>улучшить чью-либо жизнь</p> <p><b>throughout human history</b></p> <p>на всем протяжении истории человечества</p> <p><b>to invent tools, machines, materials and techniques</b></p> <p>изобретать инструменты, машины, материалы, технологии</p> <p><b>to make one's life easier</b></p> <p>облегчить чью-либо жизнь</p> <ul style="list-style-type: none"> <li>- <b>to look at smth. in a much narrower sense</b></li> </ul> <p>посмотреть на что-либо в значительно более узком смысле</p> <p><b>industrial technology</b></p> <p>промышленная технология</p> <p><b>development of power-driven machines</b></p> <p>развитие паровых машин</p> <p><b>growth of the factory system</b></p> <p>рост фабричной системы</p> <p><b>mass production of goods</b></p> <p>массовое производство товаров</p> <p><b>to create the basis for smth.</b></p> <p>создать основу для чего-либо</p> <p><b>an age of science and technology</b></p> <p>век науки и техники</p> <p><b>according to one estimate</b></p> <p>по одной оценке</p> <p><b>increased scientific activity</b></p> <p>возросшая научная активность, деятельность</p> <p><b>an invention</b></p> <p>изобретение</p> <ul style="list-style-type: none"> <li>- <b>the scientific revolution</b></li> </ul> <p>научная революция</p> <p><b>to make a revolutionary discovery in smth.</b></p> <p>сделать революционное открытие в какой-либо области</p> <p><b>astronomy</b></p> <p>астрономия</p> <p><b>physics</b></p> <p>физика</p> <p><b>to patent smth.</b></p> <p>запатентовать изобретение</p> <p><b>to be based on science</b></p> <p>основываться на науке</p> <p><b>an inventor</b></p> <p>изобретатель</p> <p><b>to build on the work of scientists</b></p> <p>основываться на научных работах</p>
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	<p><b>early experiments</b> зд.: более ранние эксперименты</p> <p><b>electrical lighting</b> электрическое освещение</p> <p><b>to carry on an investigation</b> проводить исследование</p> <p><b>an electric bulb</b> электрическая лампочка</p> <p><b>a research laboratory</b> исследовательская лаборатория</p> <p><b>modern technological research</b> современное научно-техническое исследование</p>
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