**Science: Optional Summer Project**

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| What is the Optional Summer Project? |
| Option 1:* Imagine you lived in a world with no friction!
* Create a diary entry describing what your day would be like
* Include any relevant pictures or photos
* Be imaginative – you can present your entry in any format

Option 2:* Imagine fossil fuels (coal, oil and gas) have run out!
* How would you generate electricity?
* How would you travel from place to place? – remember there would be no diesel or petrol as this comes from oil
* Create an information page summarising how your life would be different?

Option 3: * Go outside in the fresh air and spend 30 minutes exercising
* Write down all the changes that take place when you exercise
* **Explain** why these changes occur
* Create an information page summarising the above
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| What resources will I need? |
| Pen, paper, your imagination |
| Where can I look for more activities or resources if I would like them? |
| **BBC bitesize****Oak National Academy****Educake** – you can set your own tests on topics here. Try setting yourself some tests on areas you need to improve or on areas you will be studying in September.**Seneca Learning** <https://senecalearning.com/en-GB/>Create a free login and join the class below

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| KS3 Science class code | **09ksj5o7bo** |

Then just click on your course and start learning!For further support to access this please see the how to guide on the school website:<https://kings.patrust.org.uk/wp-content/uploads/2020/04/Seneca-Information-2-1.pdf> |
| What will I be studying when I return in September and how can I prepare? |
| New Year 8 | Biology: The Natural World (adaptations of plants and animals), Cells, Biological systems (breathing and digestion), Drugs.Chemistry: Atoms and Elements, Bonding and Molecules, Reactions and Energy, Earth and Environment.Physics: Atomic physics (models of the atom), Energy, Forces, Electricity and Magnetism.On educake you can set your own tests on these areas. Or look back at your areas for improvement and work on improving these.  |
| New Year 9 | Biology: Inheritance, The Natural World (ecosystems), Cells, Biological systems (musculo-skeletal and circulatory systems).Chemistry: Atoms and Elements, Bonding and Molecules, Organic Chemistry, Reactions and Energy, Earth and Environment.Physics: Waves, Energy, Forces, Electricity and Magnetism.On educake you can set your own tests on these areas. Or look back at your areas for improvement and work on improving these.  |