**Year 7 Summer Term 2 – Science**

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| **Week 1** | **Monday 1st June** | **Tuesday 2nd June** | **Thursday 4th June** | **Friday 5th June** |
| Biology  **Ecosystems**  **(part 1)** | Write a definition for the following keywords:  \* Environment  \* Ecosystem  \* Habitat  \* Community  \* Population  **Support can be found here:**  <https://www.bbc.co.uk/bitesize/guides/zq4wjxs/revision/1>  Watch the video on habitats:  <https://www.bbc.co.uk/bitesize/clips/zymcd2p>  Complete the table to compare the 3 different types of habitats. Resource can be found on SMHW. *Complete this activity on paper or in your homework book.* | Read the information about plant and animal adaptations on:  <https://sciencing.com/adaptations-do-plants-animals-make-8367366.html>  Watch <https://www.bbc.co.uk/bitesize/clips/zgpd2hv>  Design a new plant or animal species that can live in one of the habitats you studied last lesson.  *Complete this activity on paper or in your homework book.*  **Support can be found here:**  <https://www.bbc.co.uk/bitesize/topics/zxhhvcw/resources/1>  and  <https://www.bbc.co.uk/bitesize/guides/znxsgk7/revision/2> | Read the information on <https://www.bbc.co.uk/bitesize/guides/zq4wjxs/revision/1>  Explain the difference between a producer and the different types of consumer  Listen to the narrativeabout bees  List four things you have found about the bees in the food chain  *Complete this activity on paper or in your homework book.* | Go into your garden or outdoor space.  Produce a frequency table of the different bees you can see in 10 minutes.  **Support can be found here:**  <http://7474fab53f1b6ee92458-8f3ac932bad207a00c83e77eaee8d15c.r12.cf1.rackcdn.com/Bee%20ID%20sheet.jpg>  Write a diary extract on either:   1. A day in the life of a bee 2. The importance of bees in a habitat   *Complete this activity on paper or in your homework book.* |
| **Week 2** | **Monday 8th June** | **Tuesday 9th June** | **Thursday 10th June** | **Friday 12th June** |
| Chemistry  **Materials and Composites** | Find and list 15 different everyday articles in your home e.g a bath, fork  Draw a table with 3 columns (headings below) listing your articles and the material they are made from and a property   1. Article 2. Material 3. Property   **Support can be found here:**  [**https://www.bbc.co.uk/bitesize/guides/zjgyb82/revision/1**](https://www.bbc.co.uk/bitesize/guides/zjgyb82/revision/1)  *Complete this activity on paper or in your homework book.* | Write down some examples of ceramics you have in your home.  Describe what you think they all have in common and why they are useful  **Support can be found here:**  <https://www.bbc.co.uk/bitesize/guides/ztxnsbk/revision/1> | “A new fashion craze has hit the high street,” was a headline in the newspaper yesterday.  Watch the video  <https://www.youtube.com/watch?v=F03QJR9EmDA>  Make a poster to advertise the advantages and disadvantages of these new shoes using the properties of chocolate.  *Complete this activity on paper or in your homework book.* | Read the article on composites on <https://www.bbc.co.uk/bitesize/guides/ztxnsbk/revision/3>  Listen to the information about carbon fibre and bicycles.  Describe what composite materials are and how they are beneficial.  *Complete this activity on paper or in your homework book.*  *Take* the fun quiz  <https://www.bbc.co.uk/bitesize/guides/ztxnsbk/test> |
| **Week 3** | **Monday 15th June** | **Tuesday 16th June** | **Thursday 18th June** | **Friday 19th June** |
| Physics  **Sound** | "If **a tree falls in a forest and no one** is around to hear it, **does it make a sound**?  What do you think?  Find out what causes sound to occur.  **Support can be found here:**  <https://www.bbc.co.uk/bitesize/topics/zw982hv/articles/z8mmb82>  Watch the video about the sound engineer  Research a musical instrument of your choice. Include the following:  1) How is it played to make the sound  2) When in history was it introduced  3. A famous person who plays it  **Support can be found here:**  <https://www.softschools.com/facts/music_instruments/>  *Complete this activity on paper or in your homework book.* | “What comes first, lightning or thunder?”  Write down what you think and give a reason for your answer.  Read pages 56-57 in Activate 1 (your teacher will give you a log in)  Complete the activities on the worksheet. This does not need printing out.  Resource can be found on SMHW. *Complete this activity on paper or in your homework book.* | Write a definition for the following keywords:  \* amplitude  \* frequency  \* wavelength  \* pitch  \* Hertz  **Support can be found here:**  <https://www.ducksters.com/science/physics/properties_of_waves.php>  Watch <https://www.youtube.com/watch?v=TsQL-sXZOLc>  List four things you have found about sound waves  Using some objects or materials in your home create your own musical instrument (ask your parent or guardian for permission first)  Play one of your favourite tunes on and see if someone in your home can name that tune.  *Complete this activity on paper or in your homework book.* | Research where the smallest bone is in your body  Describe how humans hear sound  **Support can be found here:**  <https://www.hearinglink.org/your-hearing/about-hearing/how-the-ear-works/>  *Complete this activity on paper or in your homework book.* |
| **Week 4** | **Monday 22nd June** | **Tuesday 23rd June** | **Thursday 25th June** | **Friday 26th June** |
| Biology  **Ecosystems**  **(part 2)** | Refresh your memory on the different types of consumers found in a habitat by reading what you wrote on Thurs 4th June  Watch the video clip <https://www.youtube.com/watch?v=bW7PlTaawfQ>  Watch the video <https://www.bbc.co.uk/bitesize/guides/zq4wjxs/revision/1>  Describe a food chain and food web.  **Support can be found here:**  <https://www.bbc.co.uk/bitesize/guides/zq4wjxs/revision/3>  Complete the activity sheet  Resource can be found on SMHW. *Complete this activity on paper or in your homework book.* | Look at the food web on <https://www.bbc.co.uk/bitesize/guides/zq4wjxs/revision/4>  Predict and write what would happen if there was:  a) No grass  b) the number of slugs decreased  c) the number of insects increased  *Complete this activity on paper or in your homework book.*  Check your answers. | Research a food web from a habitat of your choice e.g woodland; ocean.  Choose an organism and write a diary extract, entitled “A day in the life of.”  Consider the following:  a) Where does it live within the habitat e.g nest, burrow  b) is it a consumer?  c) is it a predator or prey or both?  d) does it have young offspring that need looked after?  *Complete this activity on paper or in your homework book.* | Read the information on <https://www.bbc.co.uk/bitesize/guides/zq4wjxs/revision/5>  Define the meanings of the following keywords:-  \* toxic  \* accumulate  Write a newspaper article on the effects of mercury in the food chain  *Complete this activity on paper or in your homework book.*  *Take* the fun quiz  <https://www.bbc.co.uk/bitesize/guides/zq4wjxs/test> |
| **Week 5** | **Monday 29th June** | **Tuesday 30th June** | **Thursday 2nd July** | **Friday 3rd July** |
| Chemistry  **The Environment** | List 3 pieces of information you can recall about carbon dioxide  Research what a greenhouse gas is and give some examples.  **Support can be found here:**  <https://kids.niehs.nih.gov/topics/natural-world/greenhouse-effect/index.htm>  Watch the video <https://www.bbc.co.uk/bitesize/topics/z3fv4wx/articles/zndkxyc>  Describe how the level of carbon is kept constant in the atmosphere  **Support can be found here:**  <https://www.bbc.co.uk/bitesize/topics/z3fv4wx/articles/zndkxyc>  Complete these activities  *on paper or in your homework book.* | Research the carbon cycle  **Support can be found here:**  <https://eo.ucar.edu/kids/green/cycles6.htm>  Watch <https://www.youtube.com/watch?time_continue=1&v=czMkO28lU20>  Draw the carbon cycle. Use arrows to show where carbon is removed from the atmosphere and where it returns in the form of carbon dioxide.  Complete task 2 on the worksheet 7.3.2 Resource can be found on SMHW  Complete these activities  *on paper or in your homework book.* | Read the information on the atmosphere and global warming. Resource can be found on SMHW  Write two sentences incorporating the keywords on the second page.  Answer the summary questions from the document on SMHW  Complete these activities  *on paper or in your homework book.* | Go to  <https://www.bbc.co.uk/bitesize/topics/z3fv4wx/articles/zndkxyc>  and complete the quiz  Research methane; find out:  1. Its structure  2. What state it is.  3. Where it comes from  4. How it can be used  **Support can be found here:**  <https://www.bbc.co.uk/bitesize/topics/zvsycdm/articles/zfmm6yc> |
| **Week 6** | **Monday 6th July** | **Tuesday 7th July** | **Thursday 8th July** | **Friday 9th July** |
| Physics  **The Universe** | Write a definition for the following keywords:  \* Universe  \* Galaxy  \* Solar System  \* Planet  \* Moon  \* Star  \* Satellite  \* Light year  \* asteroid  **Support can be found here:**  [**https://www.ouruniverseforkids.com/planets/**](https://www.ouruniverseforkids.com/planets/)  Complete this activity  *on paper or in your homework book.* | Research the order of the planets starting with the one closet to the Sun. Make a mnemonic to remember of the order. Find out where the asteroid belt fits.  Watch  <https://www.youtube.com/watch?time_continue=18&v=toOLTFxGGhQ&feature=emb_logo>  Complete this activity  *on paper or in your homework book.* | Read the information about day and night <https://www.bbc.co.uk/bitesize/guides/z8wx6sg/revision/5>  and the seasons  <https://www.bbc.co.uk/bitesize/guides/z8wx6sg/revision/4>  Complete the worksheet on “The Seasons”. Resource can be found on SMHW  Complete this activity  *on paper or in your homework book.* | Write an imaginative article to explain your place in the Universe to an alien. This could be a poem, postcard or a short story.  You may wish to do this as a poster  Complete this activity  *on paper or in your homework book.* |