

SCIENCE REMOTE WORKING 2020-21: TERM 1

If you are absent from school, for example because you are self-isolating, you should aim to complete the tasks below in each week in addition to the home learning activities posted on Class Charts.

YEAR 7

Week Commencing	Activities
21/9/20	<ol style="list-style-type: none">1. Introduction to forces read through the powerpoint and attempt the questions. Complete the intro to forces worksheet.2. EP Skills section 1 - All About change - read the first part of the booklet on pages 4 to 6 and write out what the different variables are. Try the examples.
28/9/20	<ol style="list-style-type: none">1. Measuring forces – read through the powerpoint and attempt the questions. Use the wordsearch to make a keyword list with meanings.2. EP Skills section 2 Planning a practical Read through pages 8 –12 and make notes on how to plan a practical. Try the examples in the booklet. Start to learn the names of the lab equipment from the back of the booklet.
5/10/20	<ol style="list-style-type: none">1. Balanced and unbalanced forces – https://www.youtube.com/watch?v=5elx6-wJf1c&ab_channel=RevisionMonkeywatch the video and make notes then use the balanced and unbalanced forces handout to answer the questions.2. EP Skills section 3 - risk and safety and observations read the booklet pages 12 – 18 and make a note of the meanings of hazard, risk and precaution and have a go at writing in the tables. then read through how to make a results table. Write down some instructions for a good results table.
12/10/20	<ol style="list-style-type: none">1. Speed – work your way through the Speed powerpoint picking the appropriate questions. Then have a go at either mild medium or hard speed questions.2. EP skills section 4 – What happened – read pages 18 –20 and write out the meanings of analysis, conclusion and evaluation. Remind yourself of the names of the lab equipment from the back pages.
19/10/20	<ol style="list-style-type: none">1. Distance time graphs - work your way through the powerpoint answering the questions in your science book.2. EP skills section 5 – Is it a good experiment? - read pages 20-21 and write out the meanings of fair testing accuracy reliability and anomalies. Ask an adult to test you on the names of the lab equipment you have learned.

YEAR 8

Week Commencing	Activities
21/9/20	Work your way through the PowerPoint making sure you complete all the tasks as you go. All the information you need to complete the tasks is included in the PowerPoint but if you are still having difficulty read through the following website: https://www.bbc.co.uk/bitesize/guides/z9fgr82/revision/1 . Be sure to mark your work and make the appropriate corrections using the answers which are also in the PowerPoint.

28/9/20	Work your way through the PowerPoint making sure you complete all the tasks as you go. All the information you need to complete the tasks is included in the PowerPoint but if you are still having difficulty read through the following website: https://www.bbc.co.uk/bitesize/guides/z9fgr82/revision/1 . Be sure to mark your work and make the appropriate corrections using the answers which are also in the PowerPoint.
5/10/20	Work your way through the PowerPoint making sure you complete all the tasks as you go. All the information you need to complete the tasks is included in the PowerPoint but if you are still having difficulty read through the following website: https://www.bbc.co.uk/bitesize/guides/z9fgr82/revision/1 . Be sure to mark your work and make the appropriate corrections using the answers which are also in the PowerPoint.
12/10/20	Work your way through the PowerPoint making sure you complete all the tasks as you go. All the information you need to complete the tasks is included in the PowerPoint but if you are still having difficulty read through the following website: https://www.bbc.co.uk/bitesize/guides/z9fgr82/revision/1 . Be sure to mark your work and make the appropriate corrections using the answers which are also in the PowerPoint.
19/10/20	Work your way through the PowerPoint making sure you complete all the tasks as you go. All the information you need to complete the tasks is included in the PowerPoint but if you are still having difficulty read through the following website: https://www.bbc.co.uk/bitesize/guides/z9fgr82/revision/1 . Be sure to mark your work and make the appropriate corrections using the answers which are also in the PowerPoint.

YEAR 9 - Biology

Week Commencing	Activities
21/9/20	
28/9/20	Work your way through the powerpoint. This lesson you will be looking at specialised cells. Summarise what a specialised cell is in one sentence and then complete the table (using the information on slide 7 – 13). Once you have done that, see how many cells and descriptions you can match up – you don't have to write these down just test yourself to see what you have learnt. If you want a bit of fun at the end, try and design your own specialised cell!
5/10/20	Work your way through the lesson about the cell cycle. To start with test yourself to see if you can draw and label a plant and animal cell, how much can you remember? Read through the information on slide 5, 6, 7 and then have a go at the questions on slide 8. Mark your answers and then read slide 10. Then can you work out which statements are true or false? Go through the information about the cell cycle and then create your own model – this could be a drawing on paper or you could get creative with what you have available at home. For the last task see how many cells you can identify that are in the cell cycle.
12/10/20	Work through the lesson on Stem Cells. You will need to read the information sheets for each set of questions. Don't forget to watch the video to help you.

19/10/20	Work through the lesson about diffusion. Write your own definition of diffusion and create a flip book (or 9 diagrams) to show the stages of diffusion. Then work through the factors that can increase the rate of diffusion, answering the questions at the bottom of slides 10,11 and 12. Finish off by describing diffusion to someone in your house.
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Year 9 - Chemistry

Week Commencing	Activities
21/9/20	Watch this video on the history of the atom: https://www.youtube.com/watch?v=7MUA_yL5GDo Use what you learn from the video to complete the 'history of the atom' worksheet. Use the answers sheet to check your work. Work your way through the Powerpoint on atomic structure, checking your answers by viewing it in slideshow mode.
28/9/20	Watch this video on isotopes: https://www.youtube.com/watch?v=xjY5p-1CDr8 Use what you learn from the video to complete the tasks found on the isotopes Powerpoint. Make sure you check your answers as you go. Work your way through the slides on the forming ions Powerpoint, checking your answers as you go. This video should help: https://www.youtube.com/watch?v=900dXBWgx3Y
5/10/20	Watch this video on separating mixtures: https://www.youtube.com/watch?v=XC1RxloV0Mo Use what you learn from the video to complete the distillation worksheet. Please check your answers against the distillation worksheet answers. Watch this video on chromatography: https://www.youtube.com/watch?v=hndJf_5aB9I Work your way through the slides in the separating mixtures Powerpoint. Make sure you check your answers as you go.
12/10/20	Work your way through the slides on the atomic structure review Powerpoint. Make sure you check your answers as you work through the questions. Use this video to help: https://www.youtube.com/watch?v=KwOHJbE4Tro
19/10/20	Please work through the slides on the Powerpoint called atomic structure summary questions to check your learning for this topic. You might want to watch these videos to help: https://www.youtube.com/watch?v=bSlqA8nedGQ https://www.youtube.com/watch?v=P6DMEgE8CK8 https://www.youtube.com/watch?v=7VZApOzxYC4

Year 9 - Physics

Week Commencing	Activities
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21/9/20	<p>Read the PPT on work done, kinetic energy, gravitational potential energy and elastic potential energy. Complete ALL the practice questions from the PPT. Then complete the 2 worksheets, one on KE and GPE and the other on elastic energy.</p> <p>This video might help! - https://www.youtube.com/watch?v=MYwqb8m0jkM</p>
28/9/20	<p>Read the PPT on work done, kinetic energy, gravitational potential energy and elastic potential energy. Complete ALL the practice questions from the PPT. Then complete the 2 worksheets, one on KE and GPE and the other on elastic energy.</p> <p>This video might help! - https://www.youtube.com/watch?v=MYwqb8m0jkM</p>
5/10/20	<p>Read the PPT on wasted energy, friction, power and efficiency. Complete ALL the practice questions from the PPT. Then complete the worksheet on efficiency and mark your answers.</p> <p>This video might help! - https://www.youtube.com/watch?v=7hcv_mxcA-g</p>
12/10/20	<p>Read the PPT on conduction. Complete ALL the practice questions from the PPT. Continue reading the PPT to learn about specific heat capacity and complete the calculation practice from the PPT.</p> <p>This video on conduction might help! https://www.youtube.com/watch?v=ZuUpXAhqFJ0</p> <p>This video on SHC might help! https://www.youtube.com/watch?v=Hs5x0-IU2F4</p>
19/10/20	<p>Read the PPT on the specific heat capacity required practical. Then complete the SHC exam questions and self-assess. Finally, you can do the calculation practice questions and self-assess.</p> <p>This video on SHC experiments might help! https://www.youtube.com/watch?v=HAPmwu7byGM</p>