

Date: Monday 15th June – 29th June 2020

Subject: Science- Physics

Year 9 students are currently in their Physics rotation, which means both of their science teachers were teaching topics from the Physics curriculum. This would amount to four hours a week in school.

There is no expectation that that length of time should be spent on Physics at home each week, however I hope this explains why there are two specification sections for each installment of work set from science.

Over the two weeks students should try to complete as much as they can from both sections. Below is the work for Topic 2 topic and on page 3 is Topic 3 work. If you have any questions about the work that has been set please contact me: Thomasi@pks.coventry.sch.uk or any member of the Science team.

CP2 Specification

2.27 Explain methods of measuring human reaction times and recall typical results

2a, 2b, 2c, 2g

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Week 4 Learning Activities	Communication	Supporting Sites
<p>Topic: CP2 Reaction times</p> <p>What do you want students to know? <i>See above specification points (bold statements are year 9 sets 1-3 only)</i></p> <p>What do you want them to produce to demonstrate learning?</p> <ol style="list-style-type: none">1. Review the ppt and complete questions as you go2. Watch the sport science video (link opposite or in PowerPoint)3. Complete the ruler drop practical!4. Record your results in a table and draw a graph.5. Complete the experiment evaluation questions on paper. <p>What do you want them to practice? How?</p> <ol style="list-style-type: none">1. Discuss the practical with someone at home. Explain the method to them. <p>What can they teach to someone else? How? Explain reaction time to someone in your house. Do the ruler drop practical at home!</p> <p>Resources needed: Pen and lined paper – graph paper (in file)</p>	<p>Key Vocabulary (list 10 words per week)</p> <p>Reaction time Independent variable Dependent variable Control variable</p> <p>What would you like them to read? <u>Higher revision guide</u> Section 17 in revision guide Page 153-155</p> <p><u>Foundation revision guide</u> Section 17 in revision guide Page 154-155</p>	<p>Signpost to: <i>Websites</i></p> <p>https://www.bbc.co.uk/bitesize/guides/zxh2qhv/revision/1</p> <p><i>Sport Science</i> https://www.youtube.com/watch?v=FrZVRuK77EE</p> <p><i>There are a variety of videos on Youtube!</i></p> <p><i>Download “23 questions” on your phones app store to practice physics equations</i></p> <p><i>Share point</i></p> <p><u>Click Here</u></p> <p><i>Frog</i></p>

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CP3 Specification

3.13 Describe the main energy sources available for use on Earth (including fossil fuels, nuclear fuel, bio-fuel, wind, hydro-electricity, the tides and the Sun), and compare the ways in which both renewable and non-renewable sources are used	2c, 2g
3.14 Explain patterns and trends in the use of energy resources	2c, 2g

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Learning Activities	Communication	Supporting Sites
<p>Topic: Energy Resources and Patterns</p> <p>What do you want students to know? See above specification points</p> <p>Activities:</p> <ol style="list-style-type: none">1. Review the ppt titled energy resources and patterns. Watch the NAT GEO you tube video about renewable energy.2. Research energy resources using the Internet or BBC bitesize page link opposite. Complete the table worksheet – (Use info cards if no internet)3. Self assess or have someone at home mark your table – answers included.4. Come back to the ppt to complete a data analysis task together.5. Choose a final data analysis question to have a go at. <p>What do you want them to practice? How?</p> <ol style="list-style-type: none">1. Quiz on BBC bitesize2. Practice exam questions BBC bitesize. <p>What can they teach to someone else? How?</p> <ol style="list-style-type: none">1. Talk to a family member about the ways of saving energy around your house.2. Tell your family about the renewable energy you have learnt about. <p>Resources needed: Pen, lined paper. This will support: See powerpoints with links to other physics topics displayed on the first few slides.</p>	<p>Key Vocabulary (list 10 words per week)</p> <p>Solar Wind Hydroelectric Biomass Tidal Coal Oil Gas Nuclear</p> <p>What would you like them to read?</p> <p>Combined Science Revision Guide – CP3 Conservation of Energy Chapter – Sources of Energy</p> <ul style="list-style-type: none">• P156-164 in foundation and P156-163 in higher.	<p>Signpost to: <i>Websites:</i> BBC Bitesize https://www.bbc.co.uk/bitesize/guides/zty2k2p/revision/1</p> <p><i>Videos:</i> Renewable Energy NAT GEO https://www.youtube.com/watch?v=1kUEOBZtTRc</p> <p>Excellent videos and Quizzes for Edexcel Science: https://www.kayscience.com/edexcel-biology.html</p> <p><i>Share point Resources</i></p> <p><u>Click Here</u></p> <p><i>Frog:</i></p>