

## Y9 Double and Triple Physics Information planning sheet

### Summer Term 2020

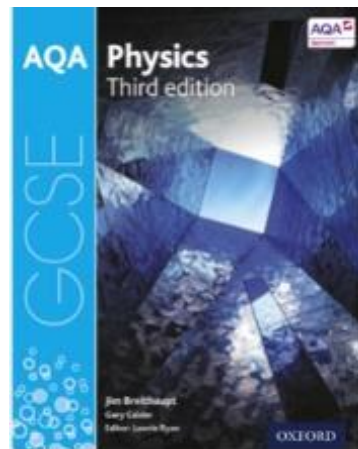
**Double and Triple Science: *Trilogy and Separate Physics* for 9S1, S2, S3, S4, S5, S6. The Topics covered will be:**

### ***P5 Electricity at Home***

## P6 Molecules and Matter

### ***P7 Radioactivity***

***Please note: Where needed, students need to use Digital Physics e-book on Kerboodle which students can access when they log into their account on [www.kerboodle.com](http://www.kerboodle.com). Students can read the double page spreads, in the digital e-books, for each topic covered below to support their learning alongside the work set from [www.theeverlearner.com](http://www.theeverlearner.com).***



### Enquiry Questions:

1. How does mains electricity differ from electricity supplied by batteries?
2. What is meant by density and how we can measure it?
3. How an unstable nucleus changes when it gives out ionising radiation??

Week	Title	Work to submit	Date due
1	<p><i>P5.1 Alternating current</i></p>       <p><i>P5.2 Cables and Plugs</i></p>	<p><u><b>P5.1 Alternating current</b></u></p> <p>Students will watch teaching video ‘Electricity in the Home’, and make notes in the ‘notes’ section (right side of the screen-‘TAB’).</p> <p>Students will use Test practice area to review knowledge – while using their notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.</p> <p>Students will then complete and submit the <u><b>TEST YOURSELF</b></u> which will be monitored by the class teacher.</p> <p><u><b>P5.2 Cables and Plugs</b></u></p> <p>Students will read Double page spread from the GCSE Physics digital e-book – pages 66-67.</p> <p>Students will watch video using the Cognito link:  <a href="https://www.youtube.com/watch?v=2g8SusMrX_o"><u>https://www.youtube.com/watch?v=2g8SusMrX_o</u></a>          Students will answer Summary questions on page 67.          Check and green-pen answers using the master answers supplied by your teacher.</p> <p>There is no work submission from this lesson. This topic will be tested in the next Check Point Test.</p>	27 <sup>th</sup> April 2020

## Y9 Double and Triple Physics Information planning sheet

### Summer Term 2020

<p>2</p>	<p><i>P5.3 Electrical Power and Potential difference</i></p>	<p><u><b>P5.3 Electrical Power and Potential difference</b></u></p> <p>Log on to Kerboodle and open GCSE Physics text book.</p> <p>Read the double page spread from the GCSE Physics digital e-book – pages 68-69, and make notes in exercise books.</p> <p>Watch video using the Cognito link and make notes in your exercise book:  <a href="https://www.youtube.com/watch?v=S8lB2kxT1n0">https://www.youtube.com/watch?v=S8lB2kxT1n0</a></p> <p>Go back to Kerboodle text book and answer questions 1,2 and 3 on page 69. <u>To complete calculations use the worked examples on pages 68 and 69.</u></p> <p>Check and green-pen answers using the <u>master answers</u> supplied by your teacher, please see attachment.</p> <p>There is no work submission from this lesson. This topic will be tested in the next Check Point Test.</p>	<p>4<sup>th</sup> May 2020</p>
	<p><i>P5.4 Electrical Currents and Energy Transfer</i></p>	<p><u><b>P5.4 Electrical Currents and Energy Transfer</b></u></p> <p><u>Log onto Kerboodle</u></p> <p>Read Physics Digital e-book pages 70-71, write down equation from page 70 and answer summary question <u>1a,b and c.</u></p> <p><u>Log into theeverlearner</u></p> <p>Please watch the teaching video ‘<u>Power and Appliances</u>’, and make notes in the ‘notes’ section (right side of the screen-‘TAB’).</p> <p>Use the Test practice area to review knowledge – while using their notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.</p> <p>When confident enough <u>TEST YOURSELF</u> and submit scores to the class teacher.</p> <p>Please redo if you don’t achieve expected pass %.</p> <p><b>Sets 1 and 2 = 80%</b>  <b>Sets 3 and 4 = 70%</b>  <b>Sets 5,6 and 7 = 60%</b></p>	

## Y9 Double and Triple Physics Information planning sheet

### Summer Term 2020

3	<p>P5.5 Appliances and Efficiency</p>       <p>P5 Check point 5</p>	<p><b><u>P5.5 Appliances and Efficiency</u></b> Log into theeeverlearner account.</p> <p>Watch teaching video ‘Efficiency’, and make notes in the ‘notes’ section (right side of the screen-‘TAB’).</p> <p>Use Test practice area to review knowledge – while using their notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.</p> <p>Complete and submit the <b><u>TEST YOURSELF</u></b> which will be monitored by the class teacher.</p> <p><b><u>P5 Check point 5</u></b> Log into theeeverlearner account.</p> <p>Complete Check point 5 to the best of your ability and submit by the due date.</p>	11 <sup>th</sup> May 2020
4	<p>P5 Exampro GCSE Style questions</p>       <p>P6.1 Density RP5</p>	<p><b><u>P5 Exampro GCSE Style questions</u></b></p> <p>Complete GCSE Style questions Green-pen and self-assessed using master answers- see second tab. No submission required this time. Please re-visit Kerboodle Digital text book to revisit theory (if needed).</p> <p>Exampro Link: <a href="https://reuepuo.exampro.net/">https://reuepuo.exampro.net/</a></p> <p><b><u>P6.1 Density RP5 Required Practical 5</u></b> Watch teaching video, ‘RP 5 Density of Materials’ and make notes in the ‘notes’ section.</p> <p>Use Test practice area to review knowledge – while using your notes taken during watching the video. Computer will offer a feedback to address misconceptions or incorrect answers.</p> <p>Complete and submit the <b><u>TEST YOURSELF</u></b> which will be monitored by the class teacher.</p>	18 <sup>th</sup> May 2020

## Y9 Double and Triple Physics Information planning sheet

### Summer Term 2020

5	<p><i>P6.2 States of matter and P6.3 Changes of State</i></p>	<p><b><u>P6.2 States of matter and P6.3 Changes of State</u></b></p> <p><b><u>Log into theeverlearner</u></b> Watch teaching video '<a href="#">Changes of State and Internal Energy</a>', and make notes in the 'notes' section. (This video covers both lessons).</p> <p>Use Test practice area to review knowledge – while using their notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.</p> <p>Complete and submit the <b><u>TEST YOURSELF</u></b> which will be monitored by the class teacher.</p>	25 <sup>th</sup> May 2020
		Consolidation/ catch up week	8 <sup>th</sup> June
6	<p><i>P6 Exampro GCSE Style questions</i></p> <p><i>P6.4 Internal Energy</i></p>	<p><b><u>P6 Exampro GCSE Style questions</u></b> Use link below to access Exampro questions to test your knowledge. <a href="https://qaeegok.exampro.net/">https://qaeegok.exampro.net/</a></p> <p><b><u>First tab</u></b>- go through all the questions – answers them in writing in your exercise book. <b><u>Second tab</u></b> – check your answers and green pen them using master answers. No submission required for this activity</p> <p><b><u>P6.4 Internal Energy</u></b> Read Double page spread from the GCSE Physics digital e-book – pages 82-83, and make notes in exercise book.</p> <p>Watch video using the Cognito link and make notes: <a href="https://www.youtube.com/watch?v=4rT7-5yE4pQ">https://www.youtube.com/watch?v=4rT7-5yE4pQ</a></p> <p>Answer Summary questions on page 83.</p> <p>Check and green-pen answers using the master answers supplied by your teacher.</p> <p>There is no work submission from this lesson. This topic will be tested in the next Check Point Test.</p>	15 <sup>th</sup> June 2020

## Y9 Double and Triple Physics Information planning sheet

### Summer Term 2020

<p style="text-align: center;">7</p>	<div> <div>P6.5 Specific Latent Heat</div> <div></div> <div> <b><u>P6.5 Specific Latent Heat</u></b>  <b><u>Log on to the Everlearner</u></b> </div> <div>           Watch teaching video ‘Specific Latent Heat’, and make notes in the ‘notes’ section.             Use Test practice area to review knowledge – while using your notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.             Complete and submit the <b><u>TEST YOURSELF</u></b> which will be monitored by the class teacher         </div> </div> <hr/> <div> <div>P6.6 Gas Pressure and Temperature.</div> <div></div> <div> <b><u>P6.6 Gas Pressure and Temperature.</u></b>  <b><u>Log onto theeeverlearner</u></b> </div> <div>           Watch teaching video ‘Pressure in Gases’, and make notes in the ‘notes’ section.             Use Test practice area to review knowledge – while using your notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.             Complete and submit the <b><u>TEST YOURSELF</u></b> which will be monitored by the class teacher         </div> </div>	<p>22<sup>nd</sup> June 2020</p>
<p style="text-align: center;">8</p>	<div> <div>P6 Checkpoint Test 6</div> <div></div> <div> <b><u>P6 Checkpoint Test 6</u></b>  <b><u>Log on to theeeverlearner</u></b> </div> <div>           Complete Check point <b>6</b> to the best of your ability and submit by the due date   <b><u>P7.1Aatoms and Radiation</u></b>  <b><u>Log on to theeeverlearner</u></b>            Watch teaching video ‘Atomic Structure’, and make notes in the ‘notes’ section.             Use Test practice area to review knowledge – while using notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.             Complete and submit the <b><u>TEST YOURSELF</u></b> which will be monitored by the class teacher         </div> </div> <hr/> <div> <div>P7.1 atoms and Radiation</div> <div></div> <div> <b><u>P7.1Aatoms and Radiation</u></b>  <b><u>Log on to theeeverlearner</u></b> </div> <div>           Watch teaching video ‘Atomic Structure’, and make notes in the ‘notes’ section.             Use Test practice area to review knowledge – while using notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.             Complete and submit the <b><u>TEST YOURSELF</u></b> which will be monitored by the class teacher         </div> </div>	<p>29<sup>th</sup> June 2020</p>

## Y9 Double and Triple Physics Information planning sheet

### Summer Term 2020

9	<p>P7.2 Discovery of Nucleus</p>                      P7.4 more about Alpha, Beta and Gamma	<p><b><u>P7.2 Discovery of Nucleus</u></b>  <b><u>Log into theeeverlearner</u></b></p> <p>Watch teaching video ‘The development of the model of the Atom’, and make notes in the ‘notes’ section.</p> <p>Use the Test practice area to review knowledge – while using notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.</p> <p>Complete and submit the <b><u>TEST YOURSELF</u></b> which will be monitored by the class teacher</p>                      <p><b><u>P7.4 More about Alpha, Beta and Gamma</u></b>  <b><u>Log into theeeverlearner</u></b></p> <p>Watch teaching video ‘Radioactive decay and its effects”, and make notes in the ‘notes’ section.</p> <p>Use Test practice area to review knowledge – while using notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.</p> <p>Complete and submit the <b><u>TEST YOURSELF</u></b> which will be monitored by the class teacher</p>	<p>29<sup>th</sup> June 2020</p>
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## Y9 Double and Triple Physics Information planning sheet

### Summer Term 2020

10	<p><i>P7.3 Changes in the nucleus</i></p>       <p><i>P7.5 Activity and Half Life</i></p>	<p>Students will watch teaching video ‘Nuclear Equations’, and make notes in the ‘notes’ section.</p> <p>Students will use Test practice area to review knowledge – while using their notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.</p> <p>Students will then complete and submit the <b><u>TEST YOURSELF</u></b> which will be monitored by the class teacher</p>       <p>Students will watch teaching video ‘Half-Lives’, and make notes in the ‘notes’ section.</p> <p>Students will use Test practice area to review knowledge – while using their notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.</p> <p>Students will then complete and submit the <b><u>TEST YOURSELF</u></b> which will be monitored by the class teacher</p>	<p>6<sup>th</sup> July 2020</p>
11	<p><i>P7.6 Nuclear Radiation in Medicine</i></p>       <p><i>P7.7 Nuclear Fission</i></p>	<p>Students will watch teaching video ‘Medical Uses of Nuclear Radiation’, and make notes in the ‘notes’ section.</p> <p>Students will use Test practice area to review knowledge – while using their notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.</p> <p>Students will then complete and submit the <b><u>TEST YOURSELF</u></b> which will be monitored by the class teacher</p>       <p>Students will watch teaching video ‘Nuclear Fission’, and make notes in the ‘notes’ section.</p> <p>Students will use Test practice area to review knowledge – while using their notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.</p> <p>Students will then complete and submit the <b><u>TEST YOURSELF</u></b> which will be monitored by the class teacher</p>	<p>13<sup>th</sup> July 2020</p>

Y9 Double and Triple Physics Information planning sheet  
Summer Term 2020

12	<i>P7.8 Nuclear Fusion</i>	<p>Students will watch teaching video '<u><b>Nuclear Fusion</b></u>', and make notes in the 'notes' section.</p> <p>Students will use Test practice area to review knowledge – while using their notes taken during watching the video. Computer will offer a feedback to address misconceptions and/ or incorrect answers.</p> <p>Students will then complete and submit the <u><b>TEST YOURSELF</b></u> which will be monitored by the class teacher</p>	20 <sup>th</sup> July 2020
13	<i>P7 Check Point test 7</i>	Complete <u><b>Check point 7</b></u> to the best of your ability and submit by the due date	<b>22<sup>nd</sup> July 2020</b>