

# YEAR 10

From 14<sup>th</sup> February 2022

Subject

Lesson and Resources

Notes / Extension Task

## CORE SUBJECTS

Maths  
(Sets 3,4,5)

Lesson 1  
Powers of 10      **HM: 121**  
Converting between ordinary and standard form **HM: 122, 123**

Lesson 2  
Adjusting numbers in standard form **HM:124**

Lesson 3  
Multiplying and dividing in standard form **HM:125 and 126**

Lesson 4  
Adding and subtracting in standard form **HM:127**

Lesson 5  
Using a calculator in standard form      **HM: 128**  
[Standard Form mixed practice questions](#)  
[Exam Questions](#)

Lesson 6  
Percentages as pictures  
Percentage of an amount (non-calc) **HM: 84, 86 and 86**  
[Percentage of an amount \(non calc\) mixed questions](#)

Lesson 7  
Percentage multipliers      **HM: 89**  
Percentage of an amount (with a calc) HM87  
[Multipliers worksheet](#)  
[Percentages \(with a calculator\) mixed questions](#)

Notes:

For each lesson, find the relevant Hegarty Task using the search bar.

You will need to watch the video before you attempt the questions. You can use the 'Get Help' button if you are struggling with a question.

When you have completed the Hegarty Task, click on the link to complete additional practice questions.

Extension Tasks:

[Percentages Exam Questions](#)

[Percentages ANSWERS](#)

[Standard Form exam questions](#)

[Standard Form ANSWERS](#)

<b>Maths</b> <b>(Sets 1,2)</b>	<u>Lesson 1</u> Capture – Recapture <b>HM:872 and 873</b> <a href="#">Capture-recapture worksheet</a>	<b>Notes:</b> For each lesson, find the relevant Hegarty Task using the search bar. <div style="border: 1px solid #ccc; padding: 5px; margin: 10px 0;"> <input type="text" value="Search HegartyMaths"/> </div> You will need to watch the video before you attempt the questions. You can use the 'Get Help' button if you are struggling with a question.  When you have completed the Hegarty Task, click on the link to complete additional practice questions.  <b>Extension Tasks:</b> <a href="#">Capture-recapture exam questions</a> <a href="#">Capture-recapture ANSWERS</a>  <a href="#">Standard form exam questions</a> <a href="#">Standard form ANSWERS</a>  <a href="#">Proportional reasoning exam questions</a> <a href="#">Proportional reasoning ANSWERS</a>
	<u>Lesson 2</u> Powers of 10 <b>HM: 121</b> Converting between ordinary and standard form <b>HM: 122, 123</b> Adjusting numbers in standard form <b>HM:124</b>	
	<u>Lesson 3</u> Multiplying and dividing in standard form <b>HM:125 and 126</b>	
	<u>Lesson 4</u> Adding and subtracting in standard form <b>HM:127</b> Using a calculator in standard form <b>HM: 128</b> <a href="#">Standard Form mixed practice questions</a> <a href="#">Exam Questions</a>	
	<u>Lesson 5</u> Direct proportion <b>HM:339, 340 and 341</b> Proportion graphs <b>HM348</b> <a href="#">Direct proportion worksheet</a>	
	<u>Lesson 6</u> Recipe Problems <b>HM: 739 – 742</b> <a href="#">Recipes exam questions</a> - <a href="#">ANSWERS</a>	
	<u>Lesson 7</u> Inverse Proportion <b>HM342</b>	

<b>Science (Teacher 1) Foundation Tier Only</b>	<p><u>Chemical formulae:</u>  <a href="https://classroom.thenational.academy/lessons/chemical-formulae-c4wket">https://classroom.thenational.academy/lessons/chemical-formulae-c4wket</a></p> <p>Foundation tier: <u>Relative Formula Mass</u>  <a href="https://classroom.thenational.academy/lessons/relative-formula-mass-ft-only-64r3cc">https://classroom.thenational.academy/lessons/relative-formula-mass-ft-only-64r3cc</a></p>	<p>Complete the section on Quantitative Chemistry in Seneca.          Log into Seneca using your school email address – <a href="mailto:firstname.surname@theregisschool.co.uk">firstname.surname@theregisschool.co.uk</a>          Password – seneca2020</p> <p>If you have changed your password and need to reset this, click ‘forgot my password’ on the log in screen and then follow the instructions.</p> <p>Open your Science class then follow this pathway to find the courses for Quantitative Chemistry –          Combined Science Chemistry AQA GCSE Foundation / Higher Tier – 3 Quantitative Chemistry – 3.1 Chemical Measurements.</p>
	<p>Foundation tier:  <u>How to balance equations</u>  <a href="https://classroom.thenational.academy/lessons/balancing-equations-ft-only-64vk6e">https://classroom.thenational.academy/lessons/balancing-equations-ft-only-64vk6e</a></p>	
	<p>Foundation tier: <u>Conservation of mass</u>  <a href="https://classroom.thenational.academy/lessons/conservation-of-mass-68vk8t?activity=video&amp;step=2&amp;view=1">https://classroom.thenational.academy/lessons/conservation-of-mass-68vk8t?activity=video&amp;step=2&amp;view=1</a></p> <p>Foundation Tier: <u>Reacting masses:</u>  <a href="https://classroom.thenational.academy/lessons/reacting-masses-ft-only-70wk4r">https://classroom.thenational.academy/lessons/reacting-masses-ft-only-70wk4r</a></p>	
	<p>Foundation tier: <u>Concentration</u>  <a href="https://classroom.thenational.academy/lessons/concentration-6rr6cc">https://classroom.thenational.academy/lessons/concentration-6rr6cc</a></p> <p>Review: <a href="https://classroom.thenational.academy/lessons/review-ft-only-65hk6r">https://classroom.thenational.academy/lessons/review-ft-only-65hk6r</a></p>	

<b>Science (Teacher 1) Higher Tier Only</b>	<p>Recap if you need it: Chemical formulae:  <a href="https://classroom.thenational.academy/lessons/chemical-formulae-c4wket">https://classroom.thenational.academy/lessons/chemical-formulae-c4wket</a></p> <p>Higher Tier: Relative Formula Mass  <a href="https://classroom.thenational.academy/lessons/relative-formula-mass-ft-only-64r3cc">https://classroom.thenational.academy/lessons/relative-formula-mass-ft-only-64r3cc</a>  <a href="https://classroom.thenational.academy/lessons/relative-formula-mass-ht-only-6gtp8d">https://classroom.thenational.academy/lessons/relative-formula-mass-ht-only-6gtp8d</a></p>	<p>Complete the section on Quantitative Chemistry in Seneca.          Log into Seneca using your school email address – <a href="mailto:firstname.surname@theregisschool.co.uk">firstname.surname@theregisschool.co.uk</a>          Password – seneca2020</p> <p>If you have changed your password and need to reset this, click ‘forgot my password’ on the log in screen and then follow the instructions.</p> <p>Open your Science class then follow this pathway to find the courses for Quantitative Chemistry –          Combined Science Chemistry AQA GCSE Foundation / Higher Tier – 3 Quantitative Chemistry – 3.1 Chemical Measurements.</p>
	<p>HT &amp; FT: Conservation of mass  <a href="https://classroom.thenational.academy/lessons/conservation-of-mass-68vk8t?activity=video&amp;step=2&amp;view=1">https://classroom.thenational.academy/lessons/conservation-of-mass-68vk8t?activity=video&amp;step=2&amp;view=1</a></p> <p>HT &amp; FT: Moles and Avogadro’s constant  <a href="https://classroom.thenational.academy/lessons/moles-and-avogadros-constant-ht-only-chj3jt">https://classroom.thenational.academy/lessons/moles-and-avogadros-constant-ht-only-chj3jt</a></p>	
	<p>HT &amp; FT: How to balance equations  <a href="https://classroom.thenational.academy/lessons/balancing-equations-ft-only-64vk6e?step=2&amp;activity=video">https://classroom.thenational.academy/lessons/balancing-equations-ft-only-64vk6e?step=2&amp;activity=video</a></p> <p>Higher Tier: Balancing equations using moles h  <a href="https://classroom.thenational.academy/lessons/balancing-equations-using-moles-ht-only-6gwkar">https://classroom.thenational.academy/lessons/balancing-equations-using-moles-ht-only-6gwkar</a></p> <p>Higher Tier: Reacting Masses:  <a href="https://classroom.thenational.academy/lessons/reacting-masses-ht-only-69jk4d">https://classroom.thenational.academy/lessons/reacting-masses-ht-only-69jk4d</a></p>	
	<p>Concentration  <a href="https://classroom.thenational.academy/lessons/concentration-6rr6cc">https://classroom.thenational.academy/lessons/concentration-6rr6cc</a></p> <p>Limiting reactants  <a href="https://classroom.thenational.academy/lessons/limiting-reactants-6mup4c">https://classroom.thenational.academy/lessons/limiting-reactants-6mup4c</a></p> <p>Review: <a href="https://classroom.thenational.academy/lessons/review-ht-only-c9gkgr">https://classroom.thenational.academy/lessons/review-ht-only-c9gkgr</a></p>	

<b>Science (Teacher 2)</b>	<p>Please complete the Oak Academy lesson on Resistance of a wire  <a href="https://classroom.thenational.academy/lessons/resistance-of-a-wire-69h64d?utm_campaign=sharing-button&amp;utm_source=copy-link&amp;utm_medium=copy&amp;schoolUrn=137782">https://classroom.thenational.academy/lessons/resistance-of-a-wire-69h64d?utm_campaign=sharing-button&amp;utm_source=copy-link&amp;utm_medium=copy&amp;schoolUrn=137782</a></p> <p>Complete Seneca 2.2 Resistance and Electrical Work</p>	<p>Retake Seneca until you have at least 80%. If you are aiming for top grades, why settle for less than 100%?</p> <p>If you have any questions then please email your teacher.</p>
	<p>Please complete the Oak Academy lesson on Series Circuits  <a href="https://classroom.thenational.academy/lessons/series-circuits-6wrpad?utm_campaign=sharing-button&amp;utm_source=copy-link&amp;utm_medium=copy&amp;schoolUrn=137782">https://classroom.thenational.academy/lessons/series-circuits-6wrpad?utm_campaign=sharing-button&amp;utm_source=copy-link&amp;utm_medium=copy&amp;schoolUrn=137782</a></p> <p>Complete Seneca 2.3.1 to 2.3.4 on Circuits</p>	
	<p>Please complete the Oak Academy lesson on Parallel Circuits  <a href="https://classroom.thenational.academy/lessons/parallel-circuits-68w3ct?utm_campaign=sharing-button&amp;utm_source=copy-link&amp;utm_medium=copy&amp;schoolUrn=137782">https://classroom.thenational.academy/lessons/parallel-circuits-68w3ct?utm_campaign=sharing-button&amp;utm_source=copy-link&amp;utm_medium=copy&amp;schoolUrn=137782</a></p> <p>Complete Seneca 2.3.5 to 2.3.6 on Circuits</p>	
	<p>Please complete the Oak Academy lesson on Series and Parallel Circuits  <a href="https://classroom.thenational.academy/lessons/series-and-parallel-circuits-69jk8c?utm_campaign=sharing-button&amp;utm_source=copy-link&amp;utm_medium=copy&amp;schoolUrn=137782">https://classroom.thenational.academy/lessons/series-and-parallel-circuits-69jk8c?utm_campaign=sharing-button&amp;utm_source=copy-link&amp;utm_medium=copy&amp;schoolUrn=137782</a></p> <p>Complete Seneca 2.3.7 Exam Style Questions</p>	

# YEAR 10

From 14<sup>th</sup> February 2022

**Subject**

**Lesson and Resources**

**Notes / Extension Task**

## FOUNDATION SUBJECTS

**Computer Science**

Lesson 1  
[https://regisschool.sharepoint.com/sites/studentshare/Documents/Subjects/Computing/2021 22/Year 10 Computer Science/Continuation of learning Lesson 1](https://regisschool.sharepoint.com/sites/studentshare/Documents/Subjects/Computing/2021%2022/Year%2010%20Computer%20Science/Continuation%20of%20learning%20Lesson%201)

Lesson 2  
[https://regisschool.sharepoint.com/sites/studentshare/Documents/Subjects/Computing/2021 22/Year 10 Computer Science/Continuation of learning Lesson 2](https://regisschool.sharepoint.com/sites/studentshare/Documents/Subjects/Computing/2021%2022/Year%2010%20Computer%20Science/Continuation%20of%20learning%20Lesson%202)

Lesson 3  
[https://regisschool.sharepoint.com/sites/studentshare/Documents/Subjects/Computing/2021 22/Year 10 Computer Science/Continuation of learning Lesson 3](https://regisschool.sharepoint.com/sites/studentshare/Documents/Subjects/Computing/2021%2022/Year%2010%20Computer%20Science/Continuation%20of%20learning%20Lesson%203)


Lesson 4  
[https://regisschool.sharepoint.com/sites/studentshare/Documents/Subjects/Computing/2021 22/Year 10 Computer Science/Continuation of learning Lesson 4](https://regisschool.sharepoint.com/sites/studentshare/Documents/Subjects/Computing/2021%2022/Year%2010%20Computer%20Science/Continuation%20of%20learning%20Lesson%204)

Notes:  
Make notes from the PowerPoint. Complete the Knowitall Ninja quiz at the end.

Extension task:  
Review all Knowitall Ninja questions.



**Drama**

Please email: [f.hill@theregisschool.co.uk](mailto:f.hill@theregisschool.co.uk)

<b>Food</b>	<p>Lesson 1 and 2: Fats investigation</p> <p> <a href="#">Fat investigation home learning.pptx</a></p>	<p>Students who are in school will be exploring the sensory qualities of different fats in baked goods.</p> <p>If you have permission and are able, try making 2 batches of shortbread, scones or fairy cakes.</p> <p>Try using a saturate fat for batch 1 and an unsaturated fat for batch 2. What differences do you notice when you perform a sensory analysis?</p>
	<p>Lesson 3: Seneca review of learning so far</p>	<p>Use the link to Seneca to review food preparation skills learnt so far.</p> <p><a href="https://app.senecalearning.com/dashboard/class/f97nnclgq0/assignments/assignment/47796b49-59b2-4d59-82c7-07c2dd70b582">https://app.senecalearning.com/dashboard/class/f97nnclgq0/assignments/assignment/47796b49-59b2-4d59-82c7-07c2dd70b582</a></p>
	<p>Lesson 4: Seneca pre-learning dough</p>	<p>Use the link to Seneca to pre-learn dough preparation.</p> <p><a href="https://app.senecalearning.com/dashboard/class/f97nnclgq0/assignments/assignment/4bb318b0-bf97-4a50-8ccf-1ce882e26fe4">https://app.senecalearning.com/dashboard/class/f97nnclgq0/assignments/assignment/4bb318b0-bf97-4a50-8ccf-1ce882e26fe4</a></p>
<b>Geography</b>	<p><u>Lesson 1</u></p> <p><a href="#">L1 - Urban vs Rural PPT</a></p>	<p><b>Notes:</b></p> <p>For each PPT, go through each task and make notes at home. Then complete each scanned sheet from the <a href="#">work-booklet</a>.</p> <p>These videos may help to embed the learning further:</p> <p>L1 - <a href="https://classroom.thenational.academy/units/population-distribution-in-the-uk-4aea">https://classroom.thenational.academy/units/population-distribution-in-the-uk-4aea</a></p> <p>I3/I4 <a href="https://classroom.thenational.academy/lessons/the-north-south-divide-in-the-uk-6hjkae">https://classroom.thenational.academy/lessons/the-north-south-divide-in-the-uk-6hjkae</a></p>
	<p><u>Lesson 2</u></p> <p><a href="#">L2 - Impact of migration PPT</a></p>	
	<p><u>Lesson 3</u></p> <p><a href="#">L3 - Employment structures</a></p>	
	<p><u>Lesson 4</u></p> <p><a href="#">L4 - Economic change and FDI</a></p>	

<b>IT BTEC</b>	Lesson 1 <a href="\\regisschool.sharepoint.com@SSL\DavWWWRoot\sites\studentshare\Documents\Subjects\Computing\2021 22\Year 10 Btec\Continuation of learning Lesson 1">\\regisschool.sharepoint.com@SSL\DavWWWRoot\sites\studentshare\Documents\Subjects\Computing\2021 22\Year 10 Btec\Continuation of learning Lesson 1</a>	Notes: Use the link to get to the lesson resources. You are working on this section of the coursework. Complete for homework. Extension task: Review all Knowitall Ninja questions.
	Lesson 2 <a href="\\regisschool.sharepoint.com@SSL\DavWWWRoot\sites\studentshare\Documents\Subjects\Computing\2021 22\Year 10 Btec\Continuation of learning Lesson 2">\\regisschool.sharepoint.com@SSL\DavWWWRoot\sites\studentshare\Documents\Subjects\Computing\2021 22\Year 10 Btec\Continuation of learning Lesson 2</a>	
	Lesson 3 <a href="\\regisschool.sharepoint.com@SSL\DavWWWRoot\sites\studentshare\Documents\Subjects\Computing\2021 22\Year 10 Btec\Continuation of learning Lesson 3">\\regisschool.sharepoint.com@SSL\DavWWWRoot\sites\studentshare\Documents\Subjects\Computing\2021 22\Year 10 Btec\Continuation of learning Lesson 3</a>	
	Lesson 4 <a href="\\regisschool.sharepoint.com@SSL\DavWWWRoot\sites\studentshare\Documents\Subjects\Computing\2021 22\Year 10 Btec\Continuation of learning Lesson 4">\\regisschool.sharepoint.com@SSL\DavWWWRoot\sites\studentshare\Documents\Subjects\Computing\2021 22\Year 10 Btec\Continuation of learning Lesson 4</a>	
<b>Music</b>	Please contact Mrs Boyes <a href="mailto:tracey.boyes@theregisschool.co.uk">tracey.boyes@theregisschool.co.uk</a>	
<b>Physical Education BTEC</b>	Revisit knowledge from your SPs. Unstructured non teacher set work for the year 10s would be from their SPs. Teachers will email specific students missing from their class or email your teacher for guidance.	Please email your class teacher to request work. Your teacher will set you work that is bespoke to the unit you are currently covering in lesson. Email address are below for ease. Mr Purgavie <a href="mailto:Benjamin.Purgavie@theregisschool.co.uk">Benjamin.Purgavie@theregisschool.co.uk</a> Miss Buckingham <a href="mailto:Emily.Buckingham@theregisschool.co.uk">Emily.Buckingham@theregisschool.co.uk</a> Mrs Lovelock <a href="mailto:Jennifer.Lovelock@theregisschool.co.uk">Jennifer.Lovelock@theregisschool.co.uk</a> Mr Thompson <a href="mailto:Rhys.Thompson@theregisschool.co.uk">Rhys.Thompson@theregisschool.co.uk</a> Mr Manvell <a href="mailto:Daniel.Manvell@theregisschool.co.uk">Daniel.Manvell@theregisschool.co.uk</a> Mr Parkinson <a href="mailto:Samuel.Parkinson@theregisschool.co.uk">Samuel.Parkinson@theregisschool.co.uk</a>



<b>Product Design</b>	<p><u>Lesson 1</u>  Manufacturing Systems, Review the Product Techniques and Systems PowerPoint. Use you SPP to add notes to the PowerPoint.</p> <p style="text-align: center;">  Production Techniques and syst</p>	
	<p><u>Lesson 2</u>  Use your previous notes and the PowerPoint to print and answer these questions</p> <p style="text-align: center;">  Production information A4 class</p>	<p>You can take a picture and send it to your teacher for feedback or clarification about your answers.</p>
	<p><u>Lesson 3</u>  Drawing Practise  <a href="https://www.youtube.com/watch?v=JkpDCUk17K4&amp;t=284s">https://www.youtube.com/watch?v=JkpDCUk17K4&amp;t=284s</a>  Advanced <a href="https://www.youtube.com/watch?v=h3QmfT655Mk">https://www.youtube.com/watch?v=h3QmfT655Mk</a></p>	<p>In order to prepare for your design Ideas, follow the tutorial, challenge yourself with the advanced one if you can!</p>
	<p><u>Lesson 4</u>  Design three options for space saving living using a transport container as a building block, watch this video for ideas and inspiration    <a href="https://www.youtube.com/watch?v=E8Bq4DbMaRU">https://www.youtube.com/watch?v=E8Bq4DbMaRU</a></p>	

<b>Religious Studies</b>	<a href="#">Lesson 1 - Miracles Part 1</a>	<p>1. Complete the tasks on the attached Powerpoint.</p> <p>Extension Task: Plan a response to the 12-mark question 'Miracles are the best way to prove that there is a God'. Evaluate this statement. You should include arguments for, arguments against, and a conclusion.</p>
	<a href="#">Lesson 2 - Miracles Part 2</a>	<p>1. Complete the tasks on the attached Powerpoint.</p> <p>Extension Task: Plan a response to the 12-mark question 'The existence of miracles proves that there must be a God'. Evaluate this statement. You should include arguments for, arguments against, and a conclusion.</p>
	<a href="#">Lesson 3 - Revelation Part 1</a>	<p>1. Complete the tasks on the attached Powerpoint.</p> <p>Extension Task: Plan a response to the 12-mark question 'It is not possible to know anything about God'. Evaluate this statement. You should include arguments for, arguments against, and a conclusion.</p>
	<a href="#">Lesson 4 - Revelation Part 2</a>	<p>1. Complete the tasks on the attached Powerpoint.</p> <p>Extension Task: Plan a response to the 12-mark question 'General revelation is a better source of knowledge about God than special revelation'. Evaluate this statement. You should include arguments for, arguments against, and a conclusion.</p>

<b>Textiles</b>	Lesson 1: Cutting dipryl in order to model toiles	<p>This will be a practical lesson for those students in school.</p> <p>Watch the video link to observe how designers use modelling to develop their ideas.  <a href="https://www.youtube.com/watch?v=sGULpcJKbmc">https://www.youtube.com/watch?v=sGULpcJKbmc</a>  Draping on the stand like this is called 'mouflage'.</p> <p>After school sessions will run to help you catch up at a later date.</p>
	Lesson 2: Production Techniques & Systems, Emerging Technologies & Design, End of Topic Test	<p>Use the link below to connect to Seneca and look at the next 3 topics of 'New and Emerging Technologies'. These are Production Techniques &amp; Systems, Emerging Technologies &amp; Design, End of Topic Test and Exam-Style Questions</p> <p><a href="https://app.senecalearning.com/dashboard/class/vopwbbqbib/assignments/assignment/e566ec74-9370-4424-9044-156bf5c41433">https://app.senecalearning.com/dashboard/class/vopwbbqbib/assignments/assignment/e566ec74-9370-4424-9044-156bf5c41433</a></p>
	Lesson 3: Making toiles	<p>Hopefully you have been made some progress toward making your toile.</p> <p>Record in a picture/photo diary what you have done so far.  What pattern adaptations have you made for style and/or size?</p>
	Lesson 4: Energy generation and storage	<p>Use the link below to connect to Seneca and look at Energy generation and storage.</p> <p><a href="https://app.senecalearning.com/dashboard/class/vopwbbqbib/assignments/assignment/8f58d15d-67a8-4055-af03-5986c76bd87c">https://app.senecalearning.com/dashboard/class/vopwbbqbib/assignments/assignment/8f58d15d-67a8-4055-af03-5986c76bd87c</a></p>