



Week	Learning	Activities
Week beginning 1 st June	<p><u>Density</u></p> <p>In this lesson we will introduce the topic of density and how this varies for different materials and different states of materials. We will define the key terms, introduce the equation to calculate density and then practise their use.</p>	<p>https://www.thenational.academy/year-9/science/density-year-9-wk3-1</p> <p>Follow the instructions and guidance to watch the video and work through the tasks.</p>
	<p><u>Density: Progress check</u></p>	<p>Follow the instructions to complete the progress check assigned by your teacher on Teams</p> <p>Submit your answers, these will be marked and returned to you to make corrections.</p>
	<p><u>Changing state</u></p> <p>In this lesson we will review knowledge of the particle model then apply this to understanding the changes of state that occur for matter. We will investigate the idea of conservation of mass, physical versus chemical changes and compare the effects of adding energy to the system during heating.</p>	<p>https://www.thenational.academy/year-9/science/changing-state-year-9-wk3-3</p> <p>Follow the instructions and guidance to watch the video and work through the tasks.</p>



	<p><u>Changing state: Progress check</u></p>	<p>Follow the instructions to complete the progress check assigned by your teacher on Teams</p> <p>Submit your answers, these will be marked and returned to you to make corrections.</p>
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Week beginning 8 th June	<p><u>Aerobic respiration</u></p> <p>In this lesson we will be looking at the chemical process of respiration, and the importance of different organ systems in supporting this reaction.</p>	<p>https://www.thenational.academy/year-10/science/aerobic-respiration-year-10-wk4-1</p> <p>Follow the instructions and guidance to watch the video and work through the tasks.</p>
	<p><u>Aerobic respiration: Progress check</u></p>	<p>Follow the instructions to complete the progress check assigned by your teacher on Teams</p> <p>Submit your answers, these will be marked and returned to you to make corrections.</p>
	<p><u>Anaerobic respiration</u></p> <p>In this lesson we will be looking at what happens in muscles when animals exercise, and what happens when plants, bacteria and yeast respire with limited or no oxygen.</p>	<p>https://www.thenational.academy/year-10/science/anaerobic-respiration-year-10-wk4-2</p> <p>Follow the instructions and guidance to watch the video and work through the tasks.</p>
	<p><u>Anaerobic respiration: Progress check</u></p>	<p>Follow the instructions to complete the progress check assigned by your teacher on Teams</p> <p>Submit your answers, these will be marked and returned to you to make corrections.</p>



Week beginning 15 th June	<p><u>Structure and function of the heart</u></p> <p>In this lesson we will be looking at the structure of the heart and how this allows it to perform its function effectively.</p>	Lesson to be taught at school.
	<p><u>The Circulatory system</u></p> <p>In this lesson we will be looking at the organisation of the circulatory system and the blood vessels involved.</p>	Go through the short PowerPoint lesson and follow the instructions to complete the progress check assigned by your teacher on Teams Submit your answers, these will be reviewed and feedback given to you
	<p><u>Components of blood</u></p> <p>In this lesson we will be looking at what cells are found in blood and their function</p>	Go through the short PowerPoint lesson and follow the instructions to complete the progress check assigned by your teacher on Teams Submit your answers, these will be reviewed and feedback given to you
	<p><u>Educake assignment:</u> <u>Respiration, blood and the circulatory system</u></p>	Follow the instructions to complete the Educake quizzes assigned by your teacher on Teams



Week beginning 22 nd June	<u>Respiration and gas exchange</u>	Lesson to be taught at school.
	<u>Diffusion</u>	https://classroom.thenational.academy/lessons/diffusion-226c0e/ Follow the instructions and guidance to watch the video and work through the tasks.
	<u>Diffusion progress check</u>	Follow the instructions to complete the progress check assigned by your teacher on Teams Submit your answers, these will be reviewed and feedback given to you
	<u>6 mark question – CB8</u>	Follow the instructions to complete the 6 mark question lesson assigned by your teacher on Teams. Submit your answers, these will be reviewed and feedback given to you



Week beginning 29 th June	<u>Gas temperature and pressure</u>	Lesson to be taught at school
	<u>Specific heat capacity</u>	Go through the short PowerPoint lesson and follow the instructions to complete the progress check assigned by your teacher on Teams Submit your answers, these will be reviewed and feedback given to you
	<u>Specific latent heat</u>	Go through the short PowerPoint lesson and follow the instructions to complete the progress check assigned by your teacher on Teams Submit your answers, these will be reviewed and feedback given to you
	<u>Educake:</u> <u>Energy calculations</u>	Follow the instructions to complete the Educake quizzes assigned by your teacher on Teams Your teacher will give whole class feedback on these.



Week beginning 6 th July	<u>Ionic bonding</u>	Lesson taught at school
	<u>Forming ions</u> <u>Ionic formulas</u>	Go through the short PowerPoint lesson and follow the instructions to complete the progress check assigned by your teacher on Teams Submit your answers, these will be reviewed and feedback given to you This can be submitted as a photo of your work
	<u>Structure and properties of ionic compounds</u>	Go through the short PowerPoint lesson and follow the instructions to complete the progress check assigned by your teacher on Teams Submit your answers, these will be reviewed and feedback given to you
	<u>6 mark question – ionic bonding</u>	Follow the instructions to complete the 6 mark question lesson assigned by your teacher on Teams. Submit your answers, these will be reviewed and feedback given to you



Week beginning 13 th July Cultural capital	<u>Energy in Science</u>	Lesson taught at school
	<u>Science Documentary – Discovering the elements</u>	https://www.bbc.co.uk/programmes/b00q2mk5 Watch the programme on how elements were discovered. Things to think about: In the 18 th century, what was believed to be the 4 elements that made up everything? Why those? How did scientific discovery lead to what we know today?
	<u>TED-ed talk</u>	Complete the TED-ed talk worksheet Submit this to your teacher on teams
	<u>Evaluation</u>	Complete the evaluation of Science topics and lessons for terms 5 and 6 assigned on Teams.

