

<u>Calendar</u>	<u>Big Question/Theme</u>	<u>Small Questions</u>	<u>Assessment Opportunities and Criteria. Teacher feedback point (TFP)</u>	<u>Homework</u>
Autumn 1 Year 9 Topic C1 States of Matter	How does arrangement of particles affect a substance and its properties?	<ol style="list-style-type: none"> 1. What are particles like in substances in the solid, liquid and gas states? 2. What changes happen to particles during the different changes of state? 3. How do you decide what state a substance will be in at a given temperature? 	<p>Each Ks4 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic.</p> <p>Exam questions are obtained from ExamWizard.</p> <p>Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking.</p>	<p>Homework is revision of the topic's knowledge organiser.</p> <p>Students will be quizzed weekly /10</p> <p>Student results will be recorded on a tracking sheet.</p>

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Autumn 1 Year 9 Topic C1 Separating Mixtures	What are the ways of separating and purifying mixtures?	<ol style="list-style-type: none"> 1. What is the difference between a pure substance and a mixture? 2. What happens to its particles when a solid melts? 3. How do melting points allow you to spot the difference between pure substances and mixtures? 4. How can filtration be used to separate mixtures? 5. How can crystallisation be used to separate mixtures? 6. What are the hazards and risks when separating mixtures by filtration and crystallisation? 7. How can chromatography be used to separate mixtures? 8. What are the differences between mixtures and pure substances on a chromatogram? 9. How do you calculate R_f value? 10. What is distillation? 11. How do simple distillation and fractional distillation differ? 12. How would you reduce risks when carrying out a distillation experiment? 13. How would you choose which method to use to separate a mixture? 14. How is drinking water produced? 15. Why must water used in chemical analysis be pure? 	<p>Each Ks4 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic.</p> <p>Exam questions are obtained from ExamWizard.</p> <p>Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking.</p>	<p>Homework is revision of the topic's knowledge organiser.</p> <p>Students will be quizzed weekly /10</p> <p>Student results will be recorded on a tracking sheet.</p>

<p>Year 9</p> <p>Topic P1 Motion</p>	<p>motion?</p>	<ol style="list-style-type: none"> 2. What are three examples of scalar quantities? 3. What are three examples of vector quantities? 4. What is the connection between speed, velocity and acceleration? 5. How do you use the equation relating average speed, distance and time? 6. In metres per second, what are the typical speeds that someone might move at during the course of a day? 7. How do you interpret distance-time graphs? 8. How do you calculate acceleration? 9. How are acceleration, initial velocity and final velocity related? 10. What is meant by uniform acceleration? 11. What is the acceleration of freefall? 12. How is deceleration identified on a velocity/time graph? 13. How is distance determined from a velocity/time graph? 14. How do you calculate and compare accelerations on a velocity-time graph? 	<p>followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic.</p> <p>Exam questions are obtained from ExamWizard.</p> <p>Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking.</p>	<p>revision of the topic's knowledge organiser.</p> <p>Students will be quizzed weekly /10</p> <p>Student results will be recorded on a tracking sheet.</p>
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<p>Year 9</p> <p>Topic B1 Motion</p>	<p>development of the microscope allowed us to find out more about sub - cellular structures found in plant, animal and bacterial cells?</p>	<ol style="list-style-type: none"> 2. What's the difference between a light and electron microscope? 3. What's the difference between magnification and resolution? 4. What are the sub-cellular parts and function of an animal cell? 5. What are the sub-cellular parts and function of a plant cell? 6. What are the three differences between animal and plant cells? 7. What is a eukaryotic cell? 8. How are gametes adapted to their function? 9. How is a ciliated cell adapted for its function? 10. How are the epithelial cell in the small intestine adapted to its function? 11. What is a prokaryotic cell? 12. How is a bacterial cell adapted for its function? 13. Which kind of large organic molecule are enzymes? 14. Why is an enzyme a biological catalyst? 15. How do enzymes work? 16. What are the role of enzymes in the digestive system? 17. How is enzyme activity affected by temperature, pH and substrate concentration? 18. How would you calculate the rate of enzyme activity? 19. Which tests are used to identify the main substances in food? 20. What is diffusion, osmosis and active transport? 	<p>followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic.</p> <p>Exam questions are obtained from ExamWizard.</p> <p>Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking.</p>	<p>revision of the topic's knowledge organiser.</p> <p>Students will be quizzed weekly /10</p> <p>Student results will be recorded on a tracking sheet.</p>
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