

<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 11 Topic CC13 SC17 Groups in the periodic table	How are molecules arranged into families and what are their uses?	<ol style="list-style-type: none"> 1. What are the main properties of alkali metals? 2. How do alkali metals react with water? 3. Why do alkali metals have different reactivities? 4. How do the physical properties of halogens change down group 7? 5. How do you test for chlorine? 6. How do halogens react with metals? 7. How can displacement reactions be used to work out the reactivity of halogens? 8. How can we explain the reactivity of halogens? 9. What happens to halogen atoms and halide ions during displacement? 10. Why are Noble gases unreactive? 11. How can Noble gases be used? 12. What trends are there in the physical properties of the Noble gases? 	<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 11 Topic CC14 SC18 Rate of Reaction	How can different factors affect the speed of a reaction?	<ol style="list-style-type: none"> 1. What changes can occur as a reaction proceeds? 2. How can we investigate rates of reaction? 3. How are graphs used to show rates of reaction? 4. What has to happen for two particles to react? 5. How does the speed of particles affect the rate of reaction? 6. Why do changes in temperature, concentration, surface area and pressure affect rates of reaction? 7. What is a catalyst? 8. How do catalysts work? 9. What are enzymes used for? 	<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 11 Topic CC15 SC19 Rate of Reaction	Why do some reactions release heat whilst some absorb heat?	<ol style="list-style-type: none"> 1. What are exothermic and endothermic reactions? 2. What are some examples of exothermic and endothermic reactions? 3. How can heat changes in solution be investigated? 4. How can endothermic and exothermic reactions be explained in terms of bonds? 5. How are exothermic and endothermic reactions modelled? 6. How are energy changes in reactions calculated (H) 	<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 11 Topic B7 Animal Coordination and Control	How do our bodies regulate our internal environment?	<ol style="list-style-type: none"> 1. What are hormones and where are they produced? 2. What are the names of the target organs? 3. What is a positive feedback mechanism? 4. How does adrenaline prepare the body for fight or flight? 5. What is a negative feedback mechanism? 6. How does thyroxine affect metabolic rate? 7. What is the menstrual cycle? 8. What are the roles of oestrogen, progesterone, LH and FSH in the menstrual cycle? 9. How can hormones and barrier methods be used as contraception? 10. How can hormones increase the chance of pregnancy? 11. How is IVF carried out? 12. What is homeostasis? 13. How is glucose concentration measured? 14. How is blood glucose regulated? 15. How is type 1 diabetes caused and controlled? 16. How is type 2 diabetes caused and controlled? 17. What is the correlation between body mass and type 2 diabetes? TRIPLE ONLY 1) Why is it important to control core body temperature? 2) How is body temperature controlled? 3) What is the difference between vasoconstriction and vasodilation? 4) Why is osmoregulation important? 5) What is the structure of the urinary system? 6) How can kidney failure be treated? 7) What are the parts of the nephron? 8) How does filtration and reabsorption take place in the nephron? 9) How does ADH affect nephrons? 	<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 11 Topic B8 Exchange and transport in animals	How and why are substances transported around our bodies?	<p>1)What substances need to be transported into and out of the body?</p> <p>2)Why is the surface area: volume ratio important for exchange of substances?</p> <p>3)How are the lungs adapted for gas exchange?</p> <p>4)What are the components of blood?</p> <p>5)How are the components of blood adapted for their function?</p> <p>6)What are the components of the circulatory system?</p> <p>7)How are blood vessels adapted for their function?</p> <p>8)What is the structure of the heart?</p> <p>9)How does the heart pump blood?</p> <p>10)How do you calculate cardiac output?</p> <p>11)Why do organisms need to respire?</p> <p>12)What is the word equation for respiration and why is it an exothermic reaction?</p> <p>13)What is the difference between aerobic and anaerobic respiration?</p> <p>TRIPLE ONLY</p> <ol style="list-style-type: none"> 1. How do surface area, concentration and diffusion distance affect the rate of diffusion? 2. What is Fick's Law? 	<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>