Calendar	Big Question/Theme	Small Questions	Assessment Opportunities and Criteria. Teacher feedback point (TFP)	Homework
Term 1 Year 7 Intro to Science	What do I need to do/know in order to work safely in a science laboratory?	1. What are the rules of the science laboratory 2. What are hazard symbols? 3. Why are they important? 4. What is a Bunsen burner? 5. How do you light a Bunsen burner? 6. What is an observation? 7. How should you record observations in science? 8. How do I display data obtained from practicals? 9. What makes a good graph?	Each Ks3 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic. Exam questions are obtained from ExamPro. Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking. Optional: there is an assessment for each topic in the Pearsons SOW.	Homework is revision of the topic's knowledge organiser. Students will be quizzed weekly /10 on firefly. Student results will be recorded on a tracking sheet. Students will complete 2 high stakes quizzes in class per half term.

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Term 1 Year 7 Topic 7E Solutions and MIxtures	How can different mixtures be separated?	1. What makes a good method? 2. How can equipment be drawn scientifically? 3. What is filtration? 4. What is a mixture? 5. How are different mixtures classified? 6. What is dryness? How can it be achieved safely? 7. What is evaporation? 8. What are the steps involved in separating rock salt? 9. How chromatography can be used to identify a substance? 10. How does chromatography work? 11. What is desalination? 12. How can pure water be made from salt water?	Each Ks3 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic. Exam questions are obtained from ExamPro. Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking. Optional: there is an assessment for each topic in the Pearsons SOW.	Homework is revision of the topic's knowledge organiser. Students will be quizzed weekly /10 on firefly. Student results will be recorded on a tracking sheet. Students will complete 2 high stakes quizzes in class per half term.

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Term 1 Year 7 Topic 7A Cells, tissues and organ systems	How do living things work?	1. What does it mean to be alive? 2. Which organs do what, and where? 3. Which organs do what, and where? (in plants) 4. What are organs made of? 5. How do we use microscopes? 6. What are animal and plant cells made of? 7. How do organs work together in animals and plants?	Each Ks3 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic. Exam questions are obtained from ExamPro. Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking. Optional: there is an assessment for each topic in the Pearsons SOW.	Homework is revision of the topic's knowledge organiser. Students will be quizzed weekly /10 on firefly. Student results will be recorded on a tracking sheet. Students will complete 2 high stakes quizzes in class per half term.

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Term 1 Year 7 Topic 7B Sexual Reproduction in Animals	How do animals reproduce?	1. How do different animals reproduce sexually? 2. Where are the gametes produced? 3. What is the male reproductive system like? 4. What is the female reproductive system like? 5. How does sexual intercourse lead to a growing foetus? 6. What happens during the gestation period and birth? 7. What happens during puberty and adolescence?	Each Ks3 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic. Exam questions are obtained from ExamPro. Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking. Optional: there is an assessment for each topic in the Pearsons SOW.	Homework is revision of the topic's knowledge organiser. Students will be quizzed weekly /10 on firefly. Student results will be recorded on a tracking sheet. Students will complete 2 high stakes quizzes in class per half term.

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Term 1 Year 7 Topic 7I Energy	How do we use energy in the world?	1. How do we get energy for our bodies? 2. Why do different people need different amounts of energy? 3. What is energy measured in? 4. How can we carry out an experiment to determine the energy within foods? 5. What are the safety rules when working with fire? 6. What are the precautions we need to be aware of during a science practical? 7. How can energy be transferred? 8. How can energy be stored? 9. What is the conservation of energy? 10. What are the 3 fossil fuels? 11. What are fossil fuels? 12. How are fossil fuels formed? 13. Why is nuclear energy non-renewable? 14. What is renewable energy? 15. What are examples of renewable energy? 16. What are the advantages of renewable energy?	Each Ks3 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic. Exam questions are obtained from ExamPro. Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking. Optional: there is an assessment for each topic in the Pearsons SOW.	Homework is revision of the topic's knowledge organiser. Students will be quizzed weekly /10 on firefly. Student results will be recorded on a tracking sheet. Students will complete 2 high stakes quizzes in class per half term.

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Term 2 Year 7 Topic 7F Acids and Alkalis	What are the uses of acids and alkalis?	1. What are hazard symbols? 2. Why are hazard symbols important? 3. What are examples of common acids? 4. Where do indicators come from? 5. How can indicators be used to test for acidic, alkaline or neutral solutions? 6. What are common examples of acids and alkalis? 7. What is the pH scale and how is it useful? 8. How can pH be measured? 9. What happens during neutralisation? 10. How do you write word equations for neutralisation reactions? 11. What pH changes occur during neutralisation? 12. What are examples of everyday acids and bases? 13. What are examples of everyday neutralisation reactions?	Each Ks3 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic. Exam questions are obtained from ExamPro. Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking. Optional: there is an assessment for each topic in the Pearsons SOW.	Homework is revision of the topic's knowledge organiser. Students will be quizzed weekly /10 on firefly. Student results will be recorded on a tracking sheet. Students will complete 2 high stakes quizzes in class per half term.

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Term 2 Year 7 Topic 7J Current Electricity	What are electrical circuits?	1. How do switches work? 2. How are circuits and symbols drawn? 3. What happens when the number of bulbs in a circuit is changed? 4. What is current and how is it measured? 5. Why are models used? 6. What do parts of a physical model represent? 7. How can you use a physical model to explain electrical circuits? 8. What is a series and parallel circuit? 9. How can switches control a circuit? 10. How does changing the number or type of components in a circuit affect the current? 11. How does current behave in a series and parallel circuit? 12. What is a voltmeter and how is it used? 13. Why does current increase when the voltage increase? 14. What is the relationship between current and reisitance? 15. What are the appropriate safety precautions for using electricity? 16. What is the role of a fuse and circuit breaker? 17. How does a fuse work? 18. How are different wires connected in a plug?	Each Ks3 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic. Exam questions are obtained from ExamPro. Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking. Optional: there is an assessment for each topic in the Pearsons SOW.	Homework is revision of the topic's knowledge organiser. Students will be quizzed weekly /10 on firefly. Student results will be recorded on a tracking sheet. Students will complete 2 high stakes quizzes in class per half term.

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Term 2 Year 7 Topic 7C Muscles and Bones	How do our muscles and bones enable us to function?	1. How do muscles in the gas exchange system allow ventilation? 2. What are the components of the blood? 3. How does the circulatory system transport oxygen and carbon dioxide around the body? 4. What are the functions of different bones in the skeleton? 5. What are the different types of joints? 6. What are antagonistic pairs of muscles and how do they control movement? 7. How do different drugs affect the body?	Each Ks3 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic. Exam questions are obtained from ExamPro. Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking. Optional: there is an assessment for each topic in the Pearsons SOW.	Homework is revision of the topic's knowledge organiser. Students will be quizzed weekly /10 on firefly. Student results will be recorded on a tracking sheet. Students will complete 2 high stakes quizzes in class per half term.

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Term 2 Year 7 Topic 7G The particle model	How does the arrangement of particles give solids, liquids and gases their properties?	1. What are the three states of matter? 2. What are the properties of the three states of matter? 3. How can you classify 'awkward' materials as solids, liquids or gases? 4. What is matter made up of? 5. How are particles arranged in solids, liquids and gases? 6. How can particle theory explain the properties of the three states of matter? 7. What is Brownian motion and how does it support particle theory? 8. How do you convert nanometres and metres? 9. What is diffusion? 10. How does diffusion occur in gases and liquids? 11. Why do some materials diffuse faster than others? 12. What is meant by gas pressure and what are its effects? 13. What causes gas pressure?	Each Ks3 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic. Exam questions are obtained from ExamPro. Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking. Optional: there is an assessment for each topic in the Pearsons SOW.	Homework is revision of the topic's knowledge organiser. Students will be quizzed weekly /10 on firefly. Student results will be recorded on a tracking sheet. Students will complete 2 high stakes quizzes in class per half term.

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Term 3 Year 7 Topic 7D Ecosystems	Why do different animals live in different places?	1. What is a species? 2. How can variation be continuous and discontinuous? 3. What are adaptations? 4. How are animals adapted to their environments? 5. How is inherited variation caused? 6. What causes environmental variation? 7. What adaptations occur for daily and seasonal changes? 8. How do organisms affect their habitats and communities? 9. How do organisms compete? 10. How can you use a food web to make predictions? 11. How do you use pyramids of numbers to describe how energy is lost in a food chain? 12. Why are pesticides need to be used carefully?	Each Ks3 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic. Exam questions are obtained from ExamPro. Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking. Optional: there is an assessment for each topic in the Pearsons SOW.	Homework is revision of the topic's knowledge organiser. Students will be quizzed weekly /10 on firefly. Student results will be recorded on a tracking sheet. Students will complete 2 high stakes quizzes in class per half term.

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Term 3 Year 7 Topic 7K Forces	What are forces and how do they impact on our lives?	1. What effects do forces have on objects? 2. What are contact and non-contact forces? 3. How can you measure forces and what are their units? 4. How does the extension of a spring depend on the force applied? 5. What are the effects of friction? 6. How can friction be changed? 7. Where is friction useful and where is it not helpful? 8. How do you calculate pressure and what is its units? 9. What are the effects of high and low pressure in everyday scenarios? 10. What are balanced and unbalanced forces? 11. What are the effects of balanced and unbalanced forces?	Each Ks3 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic. Exam questions are obtained from ExamPro. Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking. Optional: there is an assessment for each topic in the Pearsons SOW.	Homework is revision of the topic's knowledge organiser. Students will be quizzed weekly /10 on firefly. Student results will be recorded on a tracking sheet. Students will complete 2 high stakes quizzes in class per half term.

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Term 3 Year 7 Topic 7H Atoms, elements and mixtures	How are atoms, elements, mixtures and compounds important for everyday use?	1. What is the difference between an atom and a molecule? 2. How can you identify an element, mixture and compound from a particle diagram? 3. How and why are elements represented by symbols? 4. Do all elements have the same properties and uses? 5. Do we have an unlimited amount of elements? 6. What are the properties of metals and non-metals? 7. How do the properties of an element link to its uses? 8. What changes may occur when compounds are formed? 9. What are examples of common compounds? 10. How do you write word equations for chemical reactions? 11. What are the uses of decomposition reactions?	Each Ks3 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic. Exam questions are obtained from ExamPro. Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking. Optional: there is an assessment for each topic in the Pearsons SOW.	Homework is revision of the topic's knowledge organiser. Students will be quizzed weekly /10 on firefly. Student results will be recorded on a tracking sheet. Students will complete 2 high stakes quizzes in class per half term.

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Term 3 Year 7 Topic 7L Sound	What is sound and why can we hear things?	1. What causes sound and how do you make louder sounds? 2. What is the link between frequency and pitch? 3. How does sound move through materials? 4. Why does sound get fainter further from their source? 5. What are the parts of the ear and how do they function? 6. How do microphones convert sound into electrical signals? 7. What are the hearing ranges of different animals? 8. What are the uses of ultrasound? 9. How does sonar and echolocation work? 10. What are the differences between longitudinal and transverse waves? 11. Can waves be reflected? 12. What doe superposition mean?	Each Ks3 module is followed by a common assessed task (CAT). This is comprised of a mixture of exam questions based on that topic. Exam questions are obtained from ExamPro. Teacher will mark exam questions and provide a class feedback sheet. Students will NTG by responding to marking. Optional: there is an assessment for each topic in the Pearsons SOW.	Homework is revision of the topic's knowledge organiser. Students will be quizzed weekly /10 on firefly. Student results will be recorded on a tracking sheet. Students will complete 2 high stakes quizzes in class per half term.