**Year 7 (Phase 3/ Key Stage 3)**

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| **Week** | **Model of Learning** | **Topic** | **Curriculum Standard** | **Learning outcomes** | **Prior Learning** | | **Cross curricular links** | **Resources** | **Home learning/ Homework** | **Assessment Platform/ Apps for**  **AFL** | **Key vocabulary** | **Ongoing reflection/**  **Modification** | |
| **JANUARY** | | | | | | | | | | | | | |
| **Week 16**  **(03/01/2021-07/01/2021)** | Blended Learning and Distance Learning | Organ systems | KS3 | Explain how organs work together as organ systems.  Describe the main organs and functions of digestive system, circulatory system, breathing system and urinary system.  Investigate the function of the plant water transport system. | Digestive System  and  Circulatory system | | Maths, English and Art | <https://developingexperts.com/s/unit-library/curriculum/1>  <https://www.sciencevideos.co.uk/>  <https://drive.google.com/file/d/1wBqwQ1WrzzvlKiekm-FaCIC_ciGl91Km/view?usp=sharing>  <https://drive.google.com/file/d/1OJhv7wmBJ2r7kqoC3j4xTQ9os0UR-HgZ/view?usp=sharing> | Assignment in the Century Tech | Quizizz, Chat box in MS Teams, OneNote, Padlet, Microsoft/ Google Form or any other suitable, accessible app. | Circulatory system, loco motor, digestive system, urinary system, respiratory system organ transplant,  xylem and phloem |  | |
| Blended Learning and Distance Learning | Revision  WS for MYA | KS3 | Differentiate between dependent, independent and control variables. | Dependent variable  independent  variable | | Maths, English and Art | <https://developingexperts.com/s/unit-library/curriculum/1>  <https://www.sciencevideos.co.uk/>  <https://drive.google.com/file/d/1wBqwQ1WrzzvlKiekm-FaCIC_ciGl91Km/view?usp=sharing>  <https://drive.google.com/file/d/1OJhv7wmBJ2r7kqoC3j4xTQ9os0UR-HgZ/view?usp=sharing> | Assignment in the Century Tech | Quizizz, Chat box in MS Teams, OneNote, Padlet, Microsoft/ Google Form or any other suitable, accessible app. | dependent independent control  constant variables |  | |
| **Week 17**  **(10/01/2021-14/01/2021)** | Blended Learning and Distance Learning | **Chapter: 7I Energy**  7Ia Energy from food.  7Ib Energy transfers and stores. | KS3 | Recall that our bodies need energy, which we get from food.  Explain why different people need different amount of energy from food.  Describe the different ways in which energy is transferred and stored.  Elaborate the law of conservation of energy. | Energy | | Maths, English and Art | <https://developingexperts.com/s/unit-library/curriculum/1>  <https://www.sciencevideos.co.uk/>  <https://drive.google.com/file/d/1wBqwQ1WrzzvlKiekm-FaCIC_ciGl91Km/view?usp=sharing>  <https://drive.google.com/file/d/1OJhv7wmBJ2r7kqoC3j4xTQ9os0UR-HgZ/view?usp=sharing> | Assignment in the Century Tech | Quizizz, Chat box in MS Teams, OneNote, Padlet, Microsoft/ Google Form or any other suitable, accessible app. | Joule  Kilojoule  Balanced diet  Nutrients  Kinetic energy  Chemical energy  Law of conservation of energy  Thermal energy  Strain energy  Elastic potential energy  Gravitational potential energy  Nuclear energy  Atomic energy |  | |
| **Week 18**  **(17/01/2021-21/01/2021)** | **Mid Year Assessment** | | | | | | | | | | | | |
| **Week 19**  **(24/01/2021-28/01/2021)** | **Mid Year Assessment** | | | | | | | | | | | | |
| **JANUARY/ FEBRUARY** | | | | | | | | | | | | | |
| **Week 20**  **(31/01/2021-04/02/2021)** | Blended Learning and Distance Learning | 7Ic Fuels  7Id Other energy resources | KS3 | Describe what fossil fuels are and how they were made.  Explain how fossil fuels are described as non-renewable.  Differentiate between renewable and non-renewable fuels.  Elaborate some examples of renewable energy resources.  Explain how the Sun is the original source of energy for most of our energy resources.  Investigate which energy resources do not depend upon the Sun. | | N/A | Maths, English and Art | <https://developingexperts.com/s/unit-library/curriculum/1>  <https://www.sciencevideos.co.uk/>  <https://drive.google.com/file/d/1wBqwQ1WrzzvlKiekm-FaCIC_ciGl91Km/view?usp=sharing>  <https://drive.google.com/file/d/1OJhv7wmBJ2r7kqoC3j4xTQ9os0UR-HgZ/view?usp=sharing> | Assignment in the Century Tech | Quizizz, Chat box in MS Teams, OneNote, Padlet, Microsoft/ Google Form or any other suitable, accessible app. | Nuclear fuels  Uranium  Fossil fuels  Natural gas  Non-renewable fuels  Renewable fuels  Biofuels  Solar power  Solar panels  Solar power station  Wind turbines  Hydroelectric power  Geothermal power  Nuclear energy | |  |
| **Week 21**  **(07/02/2021-11/02/2021)** | Blended Learning and Distance Learning | 7Ie Using resources  WS  Fair comparisons and ratios | KS3 | Describe advantages and disadvantages of different energy resources.  Find some ways of using less fossil fuel.  Explain the meanings of efficiency means.  Make a fair comparison of result.  Calculate ratios. | | N/A | Maths, English and Art | <https://developingexperts.com/s/unit-library/curriculum/1>  <https://www.sciencevideos.co.uk/>  <https://drive.google.com/file/d/1wBqwQ1WrzzvlKiekm-FaCIC_ciGl91Km/view?usp=sharing>  <https://drive.google.com/file/d/1OJhv7wmBJ2r7kqoC3j4xTQ9os0UR-HgZ/view?usp=sharing> | Assignment in the Century Tech | Quizizz, Chat box in MS Teams, OneNote, Padlet, Microsoft/ Google Form or any other suitable, accessible app. | Non-renewable fuels  Renewable fuels  Biofuels  Efficiency  Fossil fuels | |  |
| **Week 22**  **(14/02/2021-18/02/2021)** | Blended Learning and Distance Learning | **Chapter:7D Ecosystems**  7Da Variation  7Da Charts and graphs | KS3 | Describe variation as continuous and discontinuous.  Differentiate between species and hybrid.  Present information as bar charts and scatter charts.  Find relationships using scatter graphs. | | Variations  Bar charts and graphs | Maths, English and Art | <https://developingexperts.com/s/unit-library/curriculum/1>  <https://www.sciencevideos.co.uk/>  <https://drive.google.com/file/d/1wBqwQ1WrzzvlKiekm-FaCIC_ciGl91Km/view?usp=sharing> | Assignment in the Century Tech | Quizizz, Chat box in MS Teams, OneNote, Padlet, Microsoft/ Google Form or any other suitable, accessible app. | Continuous variations  Discontinuous variations  Species  Hybrids  Dependent variable  Independent variable  Frequency diagram  Normal distribution  Line of best fit | |  |
| **Half Term Break for Students (21/02/2021-23/02/2021)** | | | | | | | | | | | | | |
| **Week 23**  **(24/02/2021-25/02/2021)** | Blended Learning and Distance Learning | 7Db Adaptations  7Dc Effects of the environment | KS3 | Recognize and describe some adaptations for different habitats.  Explain how inherited variations are caused.  Explore causes of environmental variation.  Discuss and describe adaptations to daily and seasonal changes. | | Adaptations  Habitats | Maths, English and Art | <https://developingexperts.com/s/unit-library/curriculum/1>  <https://www.sciencevideos.co.uk/>  <https://drive.google.com/file/d/1wBqwQ1WrzzvlKiekm-FaCIC_ciGl91Km/view?usp=sharing> | Assignment in the Century Tech | Quizizz, Chat box in MS Teams, OneNote, Padlet, Microsoft/ Google Form or any other suitable, accessible app. | Physical environmental factors  Adaptations  Community  Ecosystem  Inherited variation  Sexual reproduction Gametes  Sperm cell  Egg cell  Fertilised egg cell  Environmental variation  Daily changes  Seasonal changes  Nocturnal  Deciduous  Evergreen  Evergreen  Hibernation  Migration |  | |
| **FEBRUARY/ MARCH** | | | | | | | | | | | | | |
| **Week 24**  **(28/02/2021-04/03/2021)** | Blended Learning and Distance Learning | 7Dd Effects on the environment  7De Transfers in food chains | KS3 | Describe ways in which organisms affect their habitats and communities.  Use a food web to make predictions.  Use pyramids of numbers to describe how energy is lost in a food chain.  Explain why pesticides need to be used carefully. | Food chains  Food webs | | Maths, English and Art | <https://developingexperts.com/s/unit-library/curriculum/1>  <https://www.sciencevideos.co.uk/>  <https://drive.google.com/file/d/1wBqwQ1WrzzvlKiekm-FaCIC_ciGl91Km/view?usp=sharing>  <https://drive.google.com/file/d/1OJhv7wmBJ2r7kqoC3j4xTQ9os0UR-HgZ/view?usp=sharing> | Assignment in the Century Tech | Quizizz, Chat box in MS Teams, OneNote, Padlet, Microsoft/ Google Form or any other suitable, accessible app. | Population  Competitions  Extinct  Food webs  Predator  Prey  pyramids  Pesticides  Pests  Endangered  persistent | |  |
| **Week 25**  **(07/03/2021-11/03/2021)** | Blended Learning and Distance Learning | **7F Acids and alkalis**  7Fa Chemistry in the home  7Fa Hazards  7Fa Controlling risk | KS3 | Recognize some common hazard symbols.  Find some common acids.  Explain safety precautions.  Discuss and explore how the risks can be controlled. | N/A | | Maths, English and Art | <https://developingexperts.com/s/unit-library/curriculum/1>  <https://www.sciencevideos.co.uk/>  <https://drive.google.com/file/d/1wBqwQ1WrzzvlKiekm-FaCIC_ciGl91Km/view?usp=sharing>  <https://drive.google.com/file/d/1OJhv7wmBJ2r7kqoC3j4xTQ9os0UR-HgZ/view?usp=sharing> | Assignment in the Century Tech | Quizizz, Chat box in MS Teams, OneNote, Padlet, Microsoft/ Google Form or any other suitable, accessible app. | Hazard  Acids  Alkalis  Corrosive  Toxic  Explosive  Flammable  Caution  Risks  Fumes  Precautions | |  |
| **Week 26**  **(14/03/2021-18/03/2021)** | Blended Learning and Distance Learning | 7Fb Indicators  7Fc Acidity and alkalinity | KS3 | Name examples of indicators made from plants.  Describe how indicators can be used to test for acidic, alkaline or neutral solutions.  List some examples of acidic and alkalis.  Explain the pH scale and how it is used.  Find how to measure pH. | N/A | | Maths, English and Art | <https://developingexperts.com/s/unit-library/curriculum/1>  <https://www.sciencevideos.co.uk/>  <https://drive.google.com/file/d/1wBqwQ1WrzzvlKiekm-FaCIC_ciGl91Km/view?usp=sharing>  <https://drive.google.com/file/d/1OJhv7wmBJ2r7kqoC3j4xTQ9os0UR-HgZ/view?usp=sharing> | Assignment in the Century Tech | Quizizz, Chat box in MS Teams, OneNote, Padlet, Microsoft/ Google Form or any other suitable, accessible app. | Indicators  Alkalis  Pure  Neutral  Acidic  Alkaline  pH scale  acid rain | |  |
| **Week 27**  **(21/03/2021-25/03/2021)** | Blended Learning and Distance Learning | 7Fb Indicators  7Fc Acidity and alkalinity | KS3 | Name examples of indicators made from plants.  Describe how indicators can be used to test for acidic, alkaline or neutral solutions.  List some examples of acidic and alkalis.  Explain the pH scale and how it is used.  Find how to measure pH. | N/A | | Maths, English and Art | <https://developingexperts.com/s/unit-library/curriculum/1>  <https://www.sciencevideos.co.uk/>  <https://drive.google.com/file/d/1wBqwQ1WrzzvlKiekm-FaCIC_ciGl91Km/view?usp=sharing>  <https://drive.google.com/file/d/1OJhv7wmBJ2r7kqoC3j4xTQ9os0UR-HgZ/view?usp=sharing> | Assignment in the Century Tech | Quizizz, Chat box in MS Teams, OneNote, Padlet, Microsoft/ Google Form or any other suitable, accessible app. | Indicators  Alkalis  Pure  Neutral  Acidic  Alkaline  pH scale  acid rain | |  |
| **Spring Break**  **(28/03/2021-08/04/2021)** | | | | | | | | | | | | | |