**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 SystemandCirculatory 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 variableindependentvariable | 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 controlconstant 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. | JouleKilojouleBalanced dietNutrientsKinetic energyChemical energyLaw of conservation of energyThermal energyStrain energyElastic potential energyGravitational potential energyNuclear energyAtomic 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 Fuels7Id 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 UraniumFossil fuelsNatural gasNon-renewable fuelsRenewable fuelsBiofuelsSolar powerSolar panelsSolar power stationWind turbinesHydroelectric powerGeothermal powerNuclear energy |  |
| **Week 21****(07/02/2021-11/02/2021)** | Blended Learning and Distance Learning | 7Ie Using resourcesWSFair 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 fuelsRenewable fuelsBiofuelsEfficiencyFossil fuels |  |
| **Week 22****(14/02/2021-18/02/2021)** | Blended Learning and Distance Learning | **Chapter:7D Ecosystems**7Da Variation7Da 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. | VariationsBar 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 variationsDiscontinuous variationsSpeciesHybridsDependent variableIndependent variableFrequency diagramNormal distributionLine 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 Adaptations7Dc 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. | AdaptationsHabitats | 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 factorsAdaptationsCommunityEcosystemInherited variationSexual reproduction GametesSperm cellEgg cellFertilised egg cellEnvironmental variationDaily changesSeasonal changesNocturnal DeciduousEvergreenEvergreenHibernationMigration |  |
| **FEBRUARY/ MARCH** |
| **Week 24****(28/02/2021-04/03/2021)** | Blended Learning and Distance Learning | 7Dd Effects on the environment7De 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 chainsFood 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.  | PopulationCompetitionsExtinctFood websPredatorPreypyramidsPesticidesPestsEndangeredpersistent |  |
| **Week 25****(07/03/2021-11/03/2021)** | Blended Learning and Distance Learning | **7F Acids and alkalis**7Fa Chemistry in the home7Fa Hazards7Fa 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.  | HazardAcidsAlkalisCorrosiveToxicExplosiveFlammableCautionRisksFumesPrecautions |  |
| **Week 26****(14/03/2021-18/03/2021)** | Blended Learning and Distance Learning | 7Fb Indicators7Fc 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.  | IndicatorsAlkalisPureNeutralAcidicAlkalinepH scaleacid rain |  |
| **Week 27****(21/03/2021-25/03/2021)** | Blended Learning and Distance Learning | 7Fb Indicators7Fc 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.  | IndicatorsAlkalisPureNeutralAcidicAlkalinepH scaleacid rain |  |
| **Spring Break****(28/03/2021-08/04/2021)** |