**Year 8 (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 | **8Fe Trends** | **Physical trends and chemical trends**  KS3 | | | * State what happens at a material’s melting, freezing and boiling points. * Use knowledge of melting /freezing and boiling point to predict the state of a substance at a given temperature. * Investigate the properties of metals and nonmetals. | | Metals and non metals | | Maths, English and Art | | [https://www.bbc.co.uk/bitesize/guides/zcxmfcw/revision/1 /](https://classnotes.org.in/class-8/materialmetals-and-non-metals/reaction-of-metal-and-non-metals-with-oxygen/) | | 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 |  | |
| **Week 17**  **(10/01/2021-14/01/2021)** | 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 | |  | | 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 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 | **Materials**  **8G-Metals and their uses** | | KS3 | | * To analyse properties of metals and nonmetals * To analyse chemical reactions of metals with oxygen, and halogen and write word equation for the reactions of metals with non metals. * To explore need of catalyst in a reaction and describe some of the uses of catalysts. | | | Differentiation of elements into metals and non metals | Maths, English and Art | | <https://www.bbc.co.uk/bitesize/guides/zcxmfcw/revision/1>  https://www.bbc.co.uk/bitesize/guides/zqd2mp3/revision/6 | | Assignment in the Century Tech | Quizizz, Chat box in MS Teams, OneNote, Padlet, Microsoft/ Google Form or any other suitable, accessible app. | Catalysts, nonmetals , metals ,  physical properties, melting point, boiling point , chemical properties | |  |
| **Week 21**  **(07/02/2021-11/02/2021)** | Blended Learning and Distance Learning | 8Gb Corrosion | | Reaction of metals to form oxides | | * Describe what happens while rusting and corrosion * Explain how metals can be protected from corrosion * Identify the products and reactants using a symbol equations. * Investigate the conditions required for rusting | | | N/A | Maths, English and Art | | https://www.bbc.co.uk/bitesize/guides/ztrwng8/revision/1 | | Assignment in the Century Tech | Quizizz, Chat box in MS Teams, OneNote, Padlet, Microsoft/ Google Form or any other suitable, accessible app. | Corrosion , rusting,  Oxidation,  Symbol equation  Rust  Metal Oxides | |  |
| **Week 22**  **(14/02/2021-18/02/2021)** | Blended Learning and Distance Learning | 8Gc Metals and water | | Chemical properties of metals | | * Describe the reactions between metals and water * To place the metals in the order of reactivity in reactivity series * To write word and symbol equation for the reaction of metals * Make a fair comparison of result | | | Symbol of elements | Maths, English and Art | | [g](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. | Reactivity of metals  Reactivity series  Symbol equations | |  |
| **Half Term Break for Students (21/02/2021-23/02/2021)** | | | | | | | | | | | | | | | | | | |
| **Week 23**  **(24/02/2021-25/02/2021)** | Blended Learning and Distance Learning | 8Gd Quality evidence  WS   * Fair comparisons and ratios | | Chemical properties of metals | | * To improve the quality of evidence   .   * To produce reliable and accurate results. * Find relationships between the variables. * To explain what is meant by accurate data | | | Tabular data | | 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. | Accuracy  Reliability  Reactivity series  Reactivity of metals |  | |
| **FEBRUARY/ MARCH** | | | | | | | | | | | | | | | | | | |
| **Week 24**  **(28/02/2021-04/03/2021)** | Blended Learning and Distance Learning | 8Gd Metals and acids | | | Reactivity series of metals | * Describe the reactions between metals and acids * To place the metals in the order of reactivity in reactivity series based on the reaction of metals with acids * To write word and symbol equation for the reaction of metals   Identify the salts formed between given metal and acid   * Make a fair comparison of result | | Properties of metals | | | 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. | Acidic  Reactivity of metals  Reactivity series  Efferevescence  salt | |  |
| **Week 25**  **(07/03/2021-11/03/2021)** | Blended Learning and Distance Learning | 8Ge Pure metals and alloys | | | Physical and chemical properties of metals | * Describe what alloys are * Describe uses of alloys. * Describe how alloys are different from metals * Identify pure substance by their melting point and boiling point | | Uses of metals | | | 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. | Mixtures  Alloys  Pure substance  Malleable  Melting point  Boiling point | |  |
| **Week 26**  **(14/03/2021-18/03/2021)** | Blended Learning and Distance Learning | 8Ge New alloys | | | KS3-WS | * To describe how scientists discovered new alloys. * To describe the strength of alloys * To record the strength of alloys by means of a graph and analyse the data | | Uses of metals | | | 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. | Metallurgy  Metallurgists  New alloys | |  |
| **Week 27**  **(21/03/2021-25/03/2021)** | Blended Learning and Distance Learning | 8Ge Metals in Art | | | KS3-working scientifically | * To describe how metals are used in art * To investigate various buildings and monuments to illustrate the metals used in art * List some examples metals in art from daily life. | | 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. | Metals  Sculptures  monuments | |  |
| **Spring Break**  **(28/03/2021-08/04/2021)** | | | | | | | | | | | | | | | | | | |