**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 variableindependentvariable | 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 controlconstant 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 metalsReactivity seriesSymbol 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 evidenceWS* 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.  | AccuracyReliabilityReactivity seriesReactivity 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.  | AcidicReactivity of metalsReactivity seriesEfferevescence 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.  | MixturesAlloysPure substanceMalleableMelting pointBoiling 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.  | MetallurgyMetallurgistsNew 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 Sculpturesmonuments |  |
| **Spring Break****(28/03/2021-08/04/2021)** |