GES Year 7 Science: Half Termly 2 Topic Sheet for January – March 2020

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| TOPICS: ACIDS, ALKALIS AND FORCES |

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| Theme: Identify and demonstrate the skills used in Science. To explore acids, alkalis and forces. | Level: Year 7 |
| Objectives: To develop an understanding of how acids, alkalis and forces are used in everyday life and their reactions. To apply scientific skills in everyday life and within the laboratory. | |

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| Focussing Statements | Key Words | |
| **Can you identify hazards, acids and alkalis in everyday life?**   * Recognise common hazard symbols. * Plan and explain safety precautions. * Describe how indicators can be used to test for acidic, alkaline or neutral solutions. * Describe the pH scale and how it is useful. * Describe what happens during neutralisation. * Use Chromebooks to revise the topic via Kahoot and Doddle quizzes, activities and animations.   **Can you identify forces and how they are applied in everyday life?**   * Recall the effects of forces on an object. * Name the forces and classify them as contact or non-contact forces. * Recall how to measure forces and masses and their units. * Describe how the extension of a spring depends on the force applied. * Recall the effects of friction. * Calculate pressure and their units. * Explain why scientist use SI units. * Identify and explain the effects of balanced and unbalanced forces. * Use Chromebooks to revise the topic via Kahoot and Doddle quizzes, activities and animations. | Hazard  Corrosive  Diluted  Irritants  Precautions  Indicators  Acid rain  Neutralisation  Word equations  Symbol equations  Reactants  Products  Salts  Insoluble  Soluble  Antacids  Contact force  Non contact force  Magnetism  Static  Gravity  Friction  Upthrust  Water resistance  Air resistance  Weight  Mass  Compressed  Extension  Elastic  Proportional  Hooke’s Law  Lubricants  Pascals  S1 units  Balanced  Unbalanced  Stationary  Scientific Method  Theory  Observations  Data  Results  Evidence  Anomalous Results | Explaining Words  What if……  Differences between acids and alkalis include…..  ….due to the fact…..  ……is caused by…..  …this results in……  The results on the graph determine…..  Why does…….  …is highlighted when …..  Calculating the pressure allows us to…… |

**Text Book and worksheets**