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.
 | HazardCorrosiveDiluted IrritantsPrecautionsIndicatorsAcid rainNeutralisation Word equationsSymbol equationsReactants ProductsSaltsInsolubleSolubleAntacidsContact force Non contact forceMagnetismStaticGravityFrictionUpthrustWater resistance Air resistanceWeightMassCompressedExtensionElasticProportionalHooke’s LawLubricantsPascalsS1 unitsBalancedUnbalancedStationary Scientific MethodTheoryObservationsDataResultsEvidenceAnomalous Results | Explaining WordsWhat 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**