

YEAR 7

SCIENCE



SRI KDU
International
School
SUBANG JAYA

PROGRAMME OF STUDY

FORCES

- Describe gravity as a force of attraction between any two objects and describe how the size of the force is related to the masses of the objects.
- Understand that there is no air resistance to oppose movement in a vacuum.

CLASSIFYING LIFE

- Know and describe the ecological role some microorganisms have as decomposers.
- Construct and interpret food chains and webs which include microorganisms as decomposers.
- Discuss reasons for classifying viruses as living or non-living.
- Describe a species as a group of organisms that can reproduce to produce fertile offspring.
- Use and construct dichotomous keys to classify species and groups of related organisms.

EXPLAINING PROPERTIES OF MATTER

- Understand that all substances have chemical properties and physical properties.
- Understand that the acidity or alkalinity of a substance is a chemical property and is measured by pH.
- Use indicators (including Universal Indicator and litmus) to distinguish between acidic, alkaline and neutral solutions.
- Describe neutralisation reactions in terms of change of pH.

ENERGY AND SOUND

- Describe changes in energy that are a result of an event or process.
- Know that energy tends to dissipate and in doing so it becomes less useful.
- Describe the vibration of particles in a sound wave and explain why sound does not travel in a vacuum.
- Explain echoes in terms of the reflection of sound waves.
- Describe a vacuum as a space devoid of matter.

ONGOING OBJECTIVES

- Discuss how scientific knowledge is developed through collective understanding and scrutiny over time
- Describe how science is applied across societies and industries, and in research.
- Evaluate issues which involve and/or require scientific understanding.
- Describe how people develop and use scientific understanding, as individuals and through collaboration, e.g. through peer-review.
- Discuss how the uses of science can have a global environmental impact.