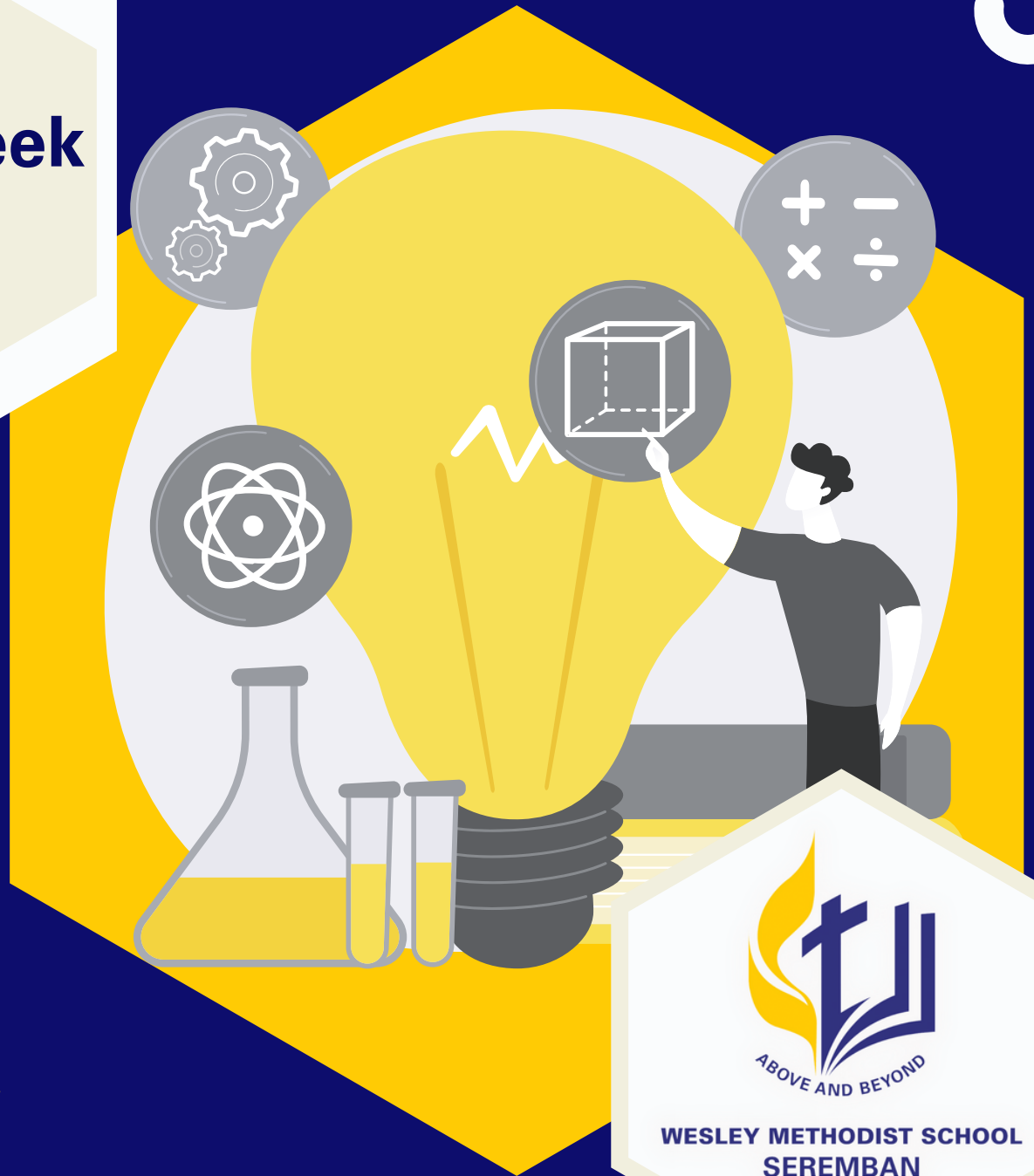


STEM Week 2023

It's STEM Week at our school! Here's a little taste of the great science for Form 4 and Form 5 students.

Students are enjoying the hands - on learning.



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STEM Week 2023

Opening Ceremony -

Acid-base reactions occur when an acidic or alkaline component of the ink can be made visible by a special chemical (indicator) that changes color depending on if it is in an acidic or alkaline environment.



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The Water Tank Boys -

Students explore the relationship between the height of the water tank and water pressure.



ABOVE AND BEYOND
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STEM Week 2023

Terrariums -

They are most useful for small plants that do not adapt well to normal home atmospheres.

When properly planted, they provide a novel way to grow many plants with minimal care. A terrarium is a good way to keep plants indoors with a minimum of care.



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Frog Dissection -

Exploring the internal systems of frogs provides a tangible example of various anatomical structures and how they function.



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DNA Extraction -

DNA is extracted by using cheek cell sample to obtain the pure sample of DNA which can be used to test a genetic disease, analyse forensic evidence, or study a gene involved in cancer.



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Golden Rain -

- Reaction between potassium iodide & lead(ii) nitrate produces lead(ii) iodide, a yellow precipitate. This precipitate will dissolve on heating. Upon cooling it will reform as yellow crystals aka the golden rain.



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Food Calory Demonstration -

Food calorimetry allows us to determine the number of calories per gram of food. In this activity, a piece of food is burned and the released energy is used to heat a known quantity of water. The temperature change (ΔT) of the water is then used to determine the amount of energy in the food.



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Closing Ceremony - Fire Bubbles

The flammable gas that was trapped in the bubbles enabled the gas to heat up when we introduced fire and started to burn. You do not burn yourself because the water in the bubbles and on your hand absorbs the heat instead!



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STEM Week 2023

Innovation, Critical Thinking, & Solving Problems-
We have them all!

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