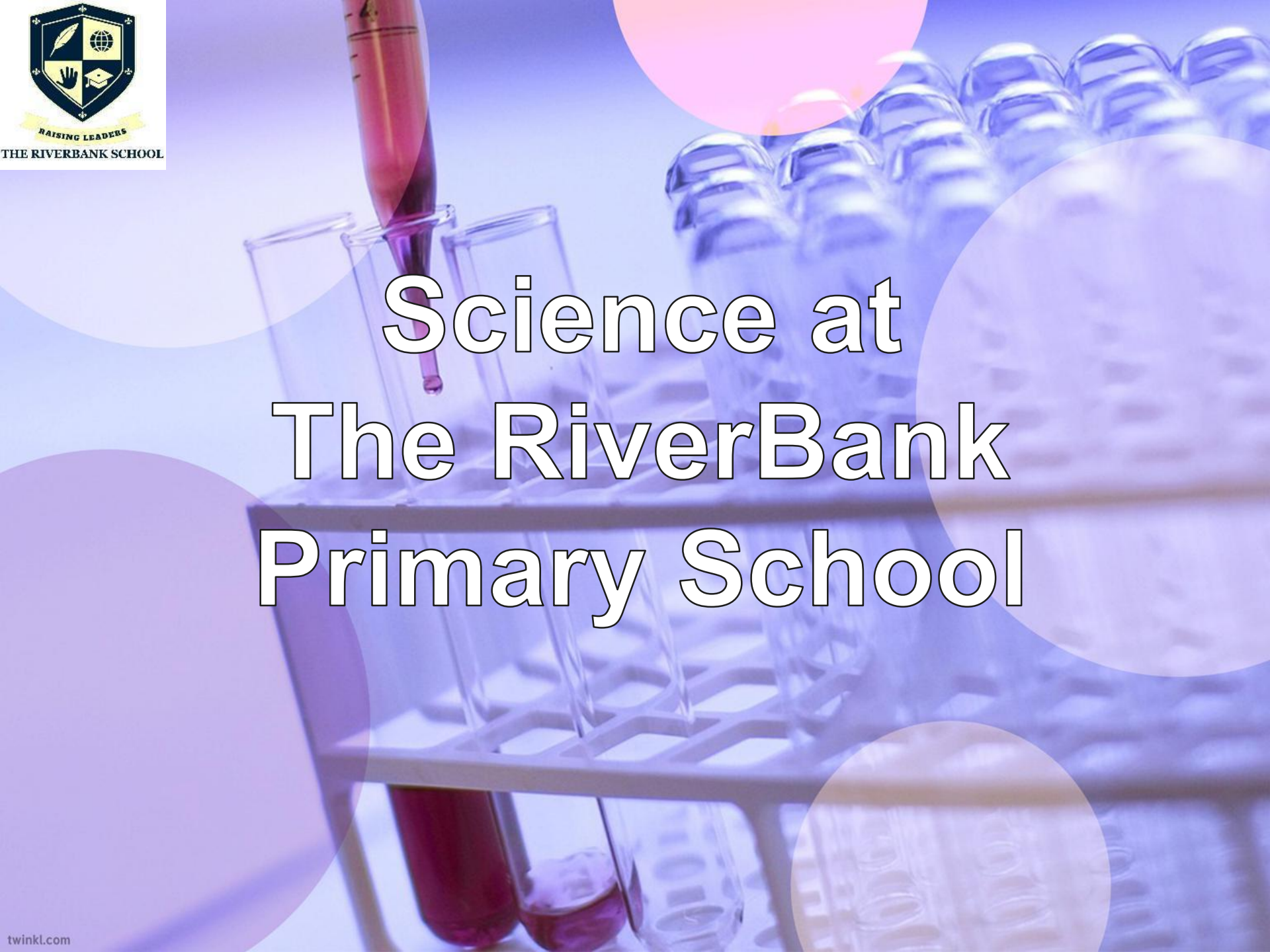
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Science at
The RiverBank
Primary School
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STARTER

Who can remove the tangerine from the cup without spilling the water?

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Aims of the session

- How we teach Science at RBS(Practical Based Method)
- How we challenge the children to deepen their learning. (Teaching for mastery)
- What it looks like in the classroom
- How you can help at home

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SCIENCE AT RBS

Science is the study of the natural and social world through a systematic process of observation, experimentation, and analysis.

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Branches of Science

The branches of Science are:

- Life Science (Biology) – The study of living organisms and their relationship to each other and their environment.

- Physical Science - Focuses on the study of non-living things and includes disciplines like physics and chemistry.

- Earth Science - The study of the Earth, its atmosphere, and the phenomena of the solar system.

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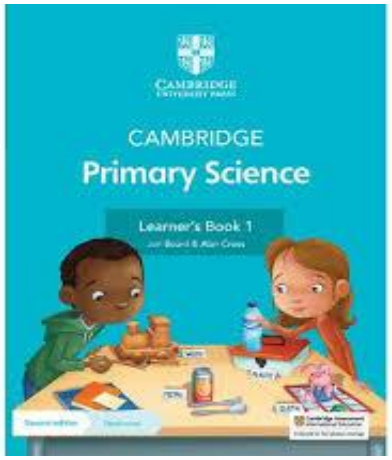
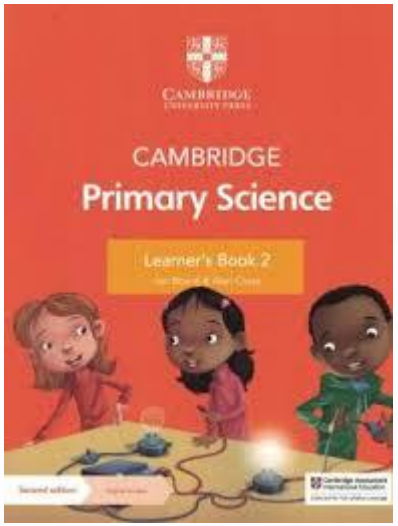
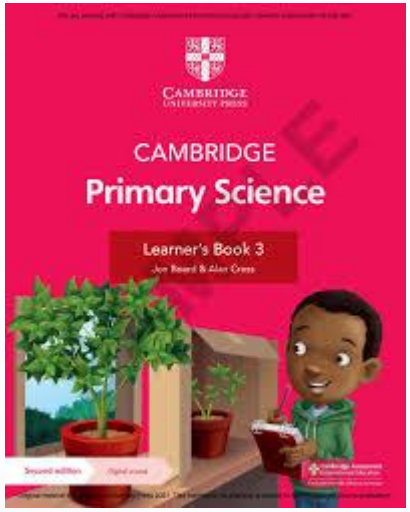
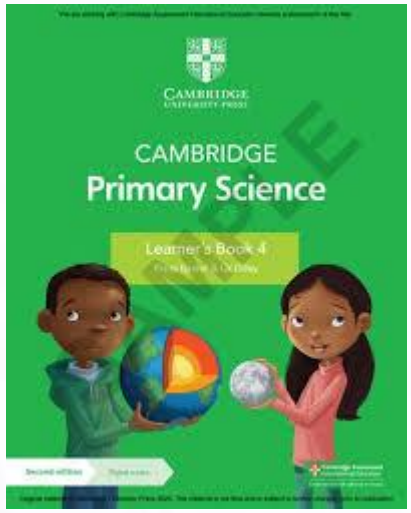
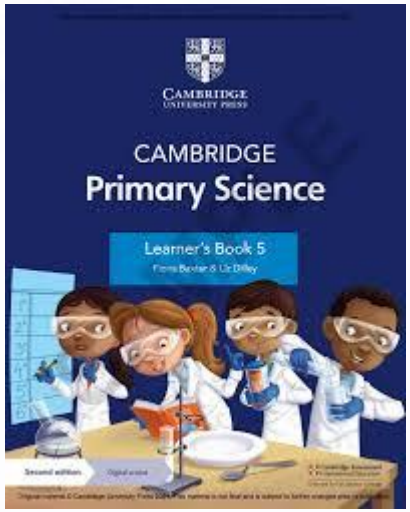
Our Curriculum

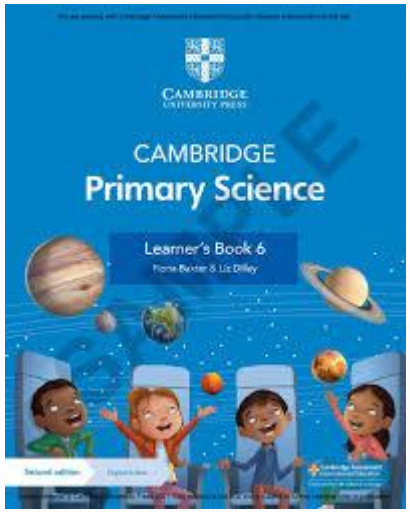












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Aims of the Curriculum

- **To develop a holistic understanding of science:** The curriculum combines practical skills with scientific knowledge to provide a complete picture of science.
- **To foster curiosity and lifelong learning:** It aims to create a lifelong interest in science and encourage students to ask scientific questions about the world around them.
- **To build scientific skills:** It focuses on developing key skills such as scientific inquiry, planning investigations, collecting and presenting evidence, and thinking critically.
- **To promote real-world application:** Students are encouraged to apply scientific concepts to real-world contexts and understand their relevance to daily life, including sustainability issues.

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How do we teach Science?

Enquiry Based Learning (students explore, ask questions and investigate)

Integrated Skills (thinking and working scientifically from the start)

Active Learning (variety of starter, main lesson and plenary)

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Teaching For Mastery

What does it mean to master something?

- ❑I know how to do it
- ❑It becomes automatic and I don't need to think about it
- ❑I'm really good at it.
- ❑ I can show someone else how to do it

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Teaching For Mastery

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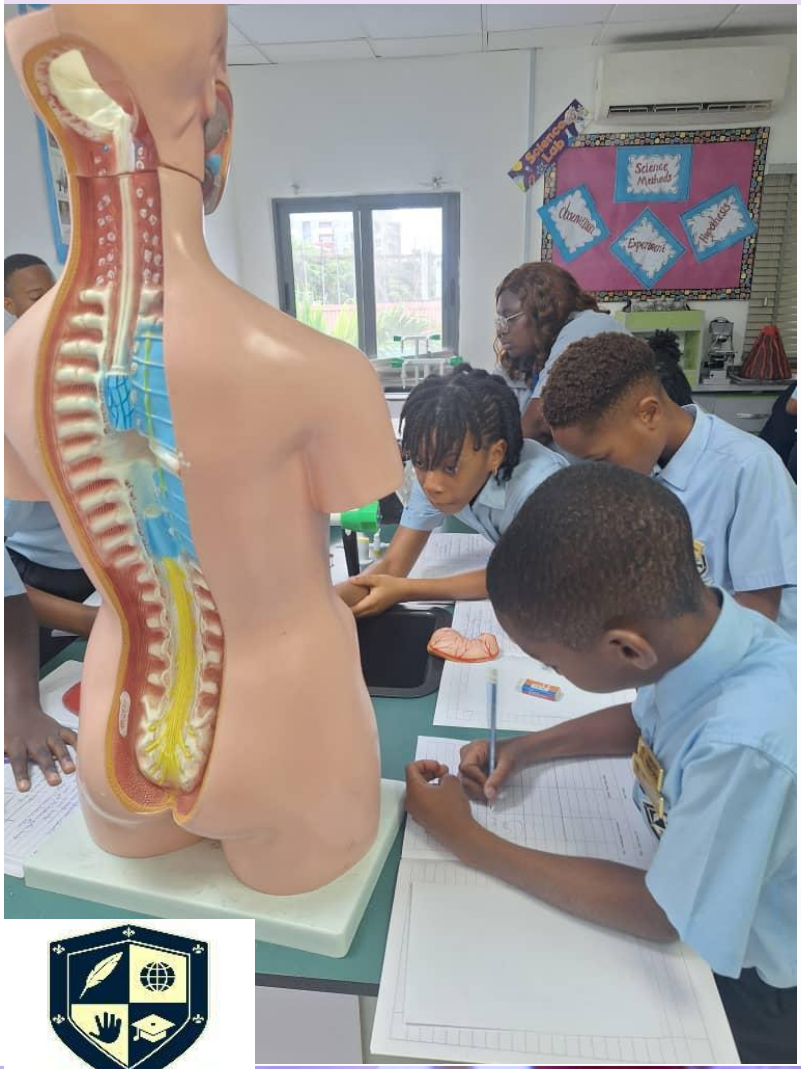
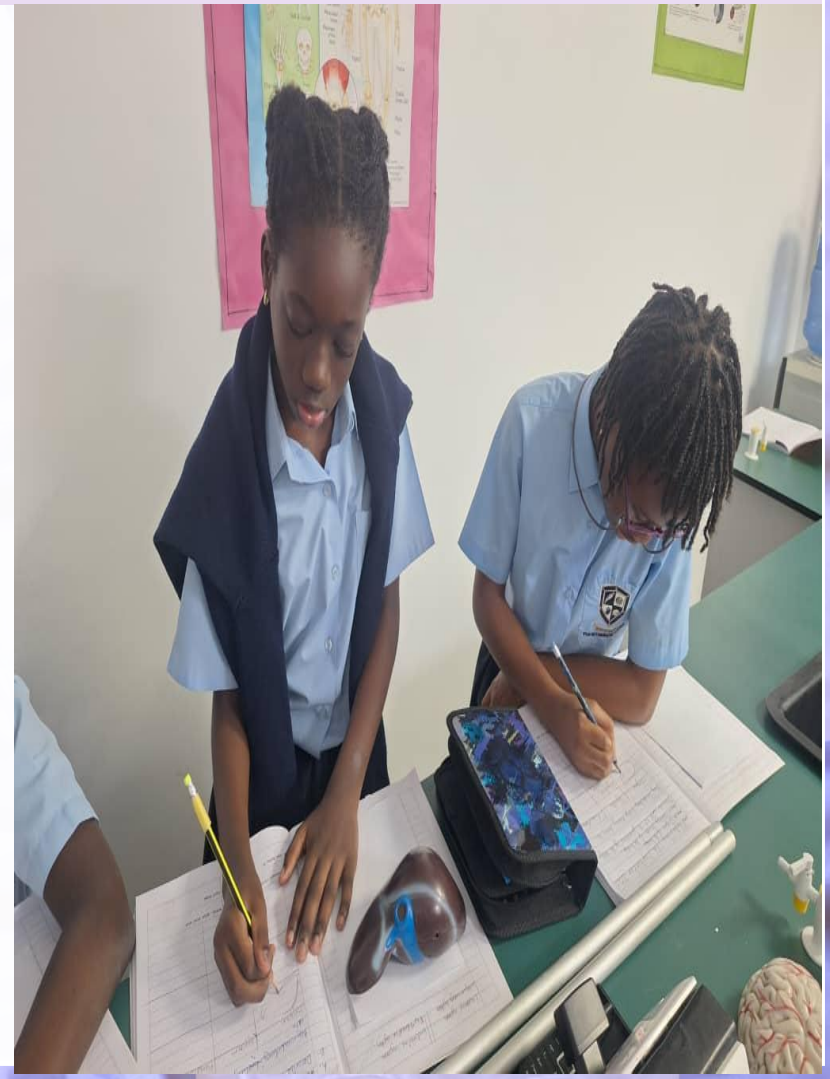
What does Science look like in the classroom?





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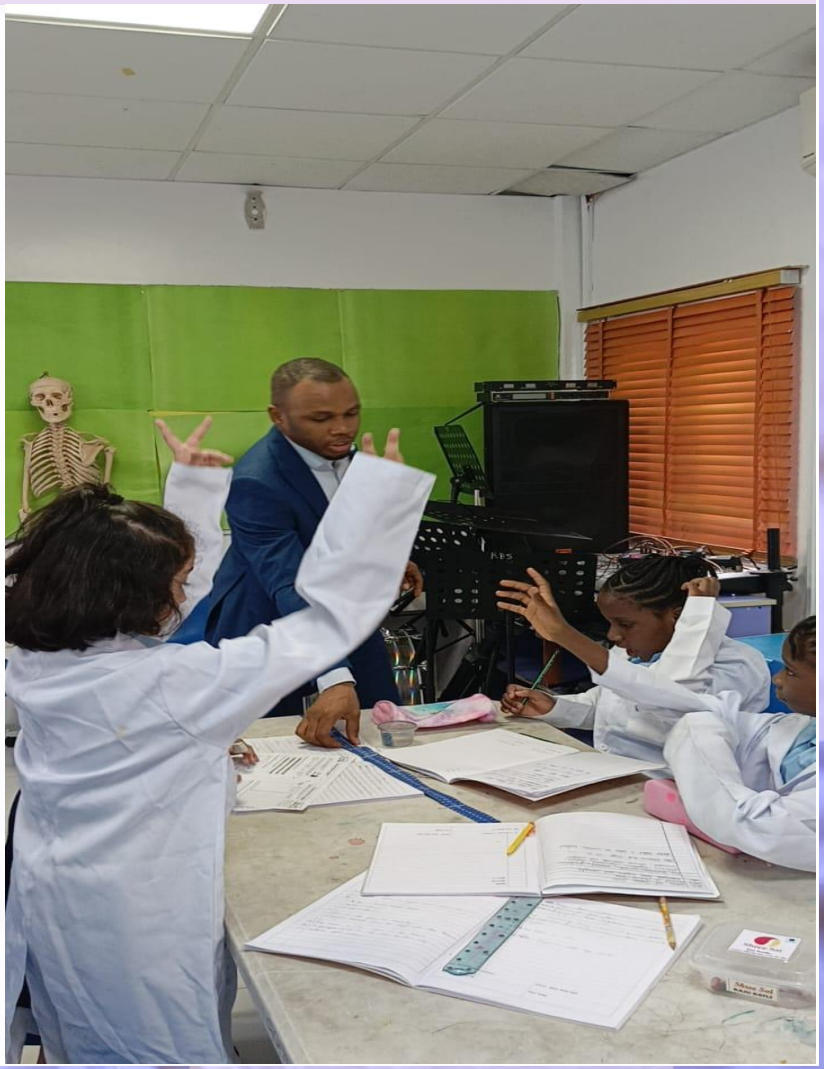
What does Science look like in the classroom?



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What does Science look like in the classroom?

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What does Science look like in the classroom?

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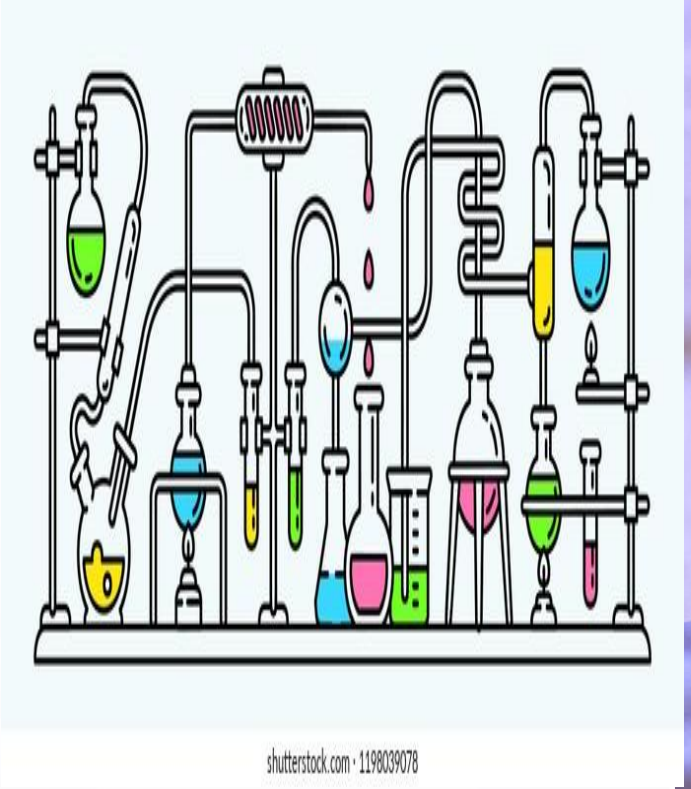
The Scientific Method

1. **Ask a Question** – Think of something you're curious about.
2. **Do Background Research** – Find out what is already known about the topic.
3. **Make a Hypothesis** – Predict what you think will happen.
4. **Plan and Do an Experiment** – Test your prediction with a careful experiment.
5. **Collect Data** – Record what happens during the experiment.
6. **Analyze Results** – Look at your data to understand what it shows.
7. **Draw a Conclusion** – Decide whether your prediction was correct.
8. **Share Results** – Explain what you learned to others.

GROUP EXPERIMENT

You have been divided into **four groups**, each with materials for a specific science experiment:

- **Group 1:** Materials and Their Properties
- **Group 2:** Test for Starch
- **Group 3:** Floating and Sinking
- **Group 4:** The Digestive Process



Kindly carry out your assigned experiment using the materials provided in front of you.
Record your **observations and results** in the worksheet given.
You have **10 minutes** for this activity.

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How can I help my child at home?

5 Science Learning Tips

1. Invite curiosity.
2. Give children time and space to explore.
3. Accept that explorations are often messy.
4. Use items from home to experiment and explore.
5. Value your child's questions.

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Any Questions

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