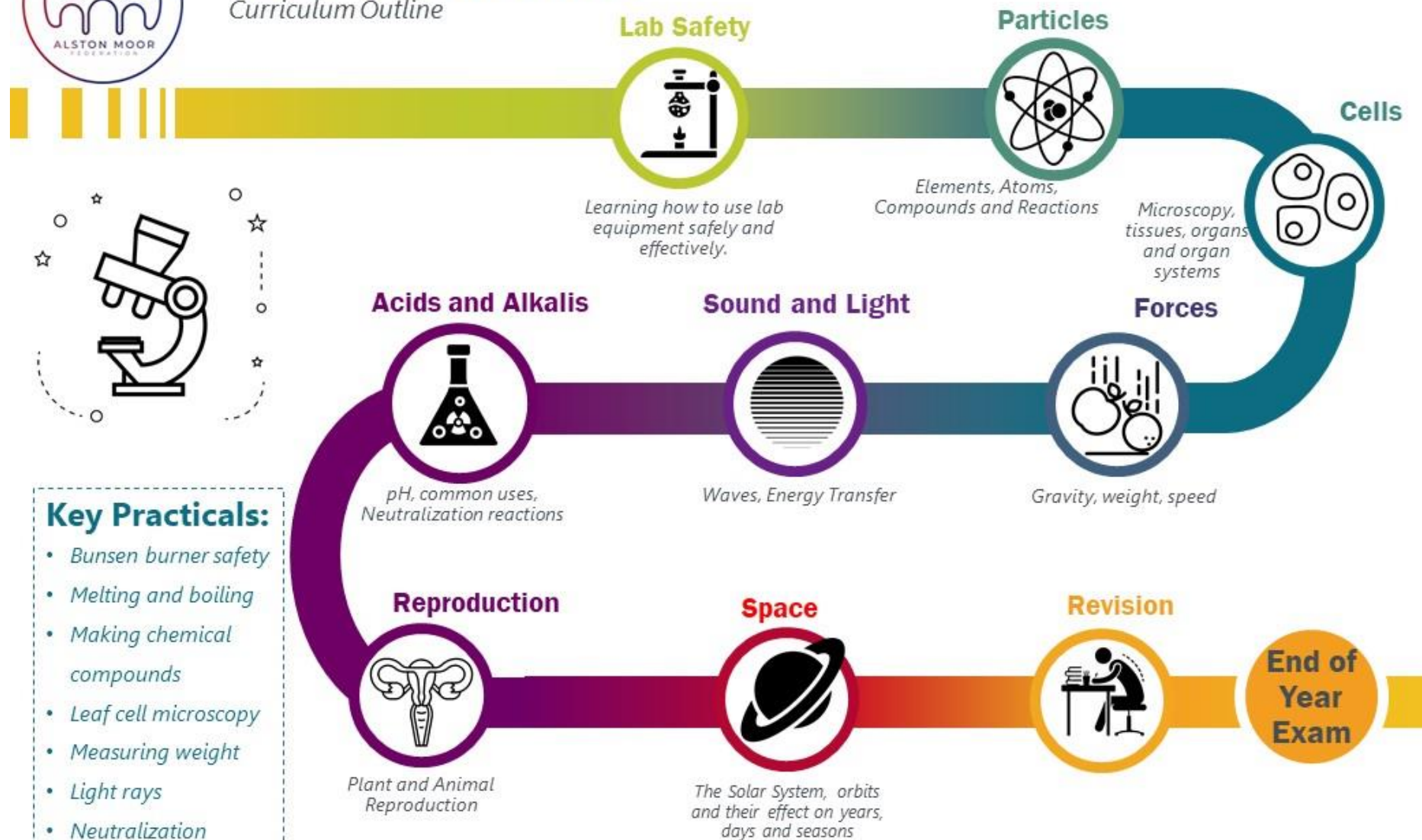




# Year 7 Science

Curriculum Outline



## Key Practicals:

- Bunsen burner safety
- Melting and boiling
- Making chemical compounds
- Leaf cell microscopy
- Measuring weight
- Light rays
- Neutralization



# Year 8 Science

Curriculum Outline

Separation Techniques

Body, Health and Lifestyle



Filtration, Evaporation, Distillation, Chromatography



Body systems, nutrition, disease, harmful substances



Forces, Motion, Pressure



Gravity, speed, acceleration, liquid and gas pressure

Metals and Acids



Reactions, evidence and equations

Periodic Table



Atomic models, elements and patterns

## Key Practicals:

- Evaporation
- Chromatography
- Food testing
- Metal acid reactions
- Measuring speed
- Light rays
- Crystal making
- Fossil making

Space, Light, Sound



Waves, Energy, solar system and orbits

The Earth



Structure of the core, crust and atmosphere, cycles, greenhouse effect

Revision



End of Year Exam

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## Why is Science important?

At Samuel King's school a high-quality science education will provide the foundations for understanding the world through the specific disciplines of biology, chemistry and physics. Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods, processes and uses of science. Through building up a body of key foundational knowledge and concepts, pupils should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. They are encouraged to understand how science can be used to explain what is occurring, predict how things will behave, and analyse causes.

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## What is the aim of the KS3 Science curriculum at SKS?

The aim of the KS3 Science curriculum at SKS is to provide a solid foundation of learning for all pupils, no matter their starting point. As a minimum, all subjects are covered from the national curriculum; we aspire to stimulate and nurture the inbuilt curiosity that children have to enable them to flourish in whatever profession they are looking at in the future.

Science lessons are designed with the way pupils learn by using PowerPoint, Videos, comprehension tasks and experiments to mention a few. By using a variety of different ways to put over key knowledge this aids in the embedding of that knowledge and improves the understanding that goes along with it. The KS3 curriculum is tied into the KS2 curriculum so pupils will engage in familiar topics to dive deeper into information and further extend their capabilities and allowing them an excellent base knowledge and understanding leading on to KS4.