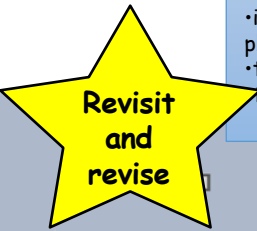


To year 8

End of year exam



12. Space Focusing on:

- ideas about the Sun and Moon, using models to explain phenomena such as eclipses and the seasons
- the cycles of seasons and the phases of the moon
- the solar system



11. Acids and alkalis Focusing on:

- acids and alkalis as classes of chemicals with distinct properties and uses
- indicators to classify solutions as acidic, alkaline or neutral
- the pH scale to compare the acidity and alkalinity of different solutions
- begin to explore neutralisation



10. Light Focusing on:

- build on their knowledge of light and its effects
- learn how we see objects
- represent light as a ray and use this concept to explain reflection and refraction
- find out about the origin of coloured light and the appearance of coloured objects

7. Sound Focusing on:

- Sound consists of vibrations which travel as a longitudinal wave through substances.
- The effect of the density of a medium and the amplitude/frequency of the waveform on volume and pitch of the sound.

8. Reproduction Focusing on:

- ideas about human reproduction and how offspring are protected and nurtured
- reproductive patterns in other animals with those in humans
- relate what they know of the way their bodies change during adolescence to knowledge about human reproduction, growth and the menstrual cycle



9. Reactions and bonding Focusing on:

- the idea that chemical change results in new substances that are different from the ones from which they were made
- explore burning as a chemical reaction involving a gas, air or oxygen
- identify hydrogen and carbon dioxide as substances made during some of these reactions
- begin to use word equations as shorthand descriptions of reaction



6. Elements atoms and compounds Focusing on:

- Element, compounds and mixtures
- Particles as atoms

5. Body systems Focusing on:

- learn that that organisms are a collection of cells and how those cells are organised
- explore the skeletal system, joints and muscles
- learn about the process of breathing and the respiratory systems role in gas exchange.



3. Cells Focusing on:

- learn that cells are the basic units of life and are organised into tissues from which organs are made
- explore cell structure and differences between plant and animal cells
- learn about some functions of cells



1. Working scientifically Focusing on:

- identifying questions that are suitable for scientific enquiry
- use a variety of strategies to answer scientific questions of different kinds
- plan and set targets for a piece of work



Baseline assessment

4. Forces Focusing on:

- concepts of force and its measurement
- identifying the origin of friction, air resistance, up thrust and weight and describe situations in which these forces act
- identifying situations in which forces are balanced and unbalanced

2. Particles and behaviour Focusing on:

- learn how the particle model can be used to explain differences between solids, liquids and gases
- explore how experimental evidence relates to theories and models



Year 7 Science

From year 6