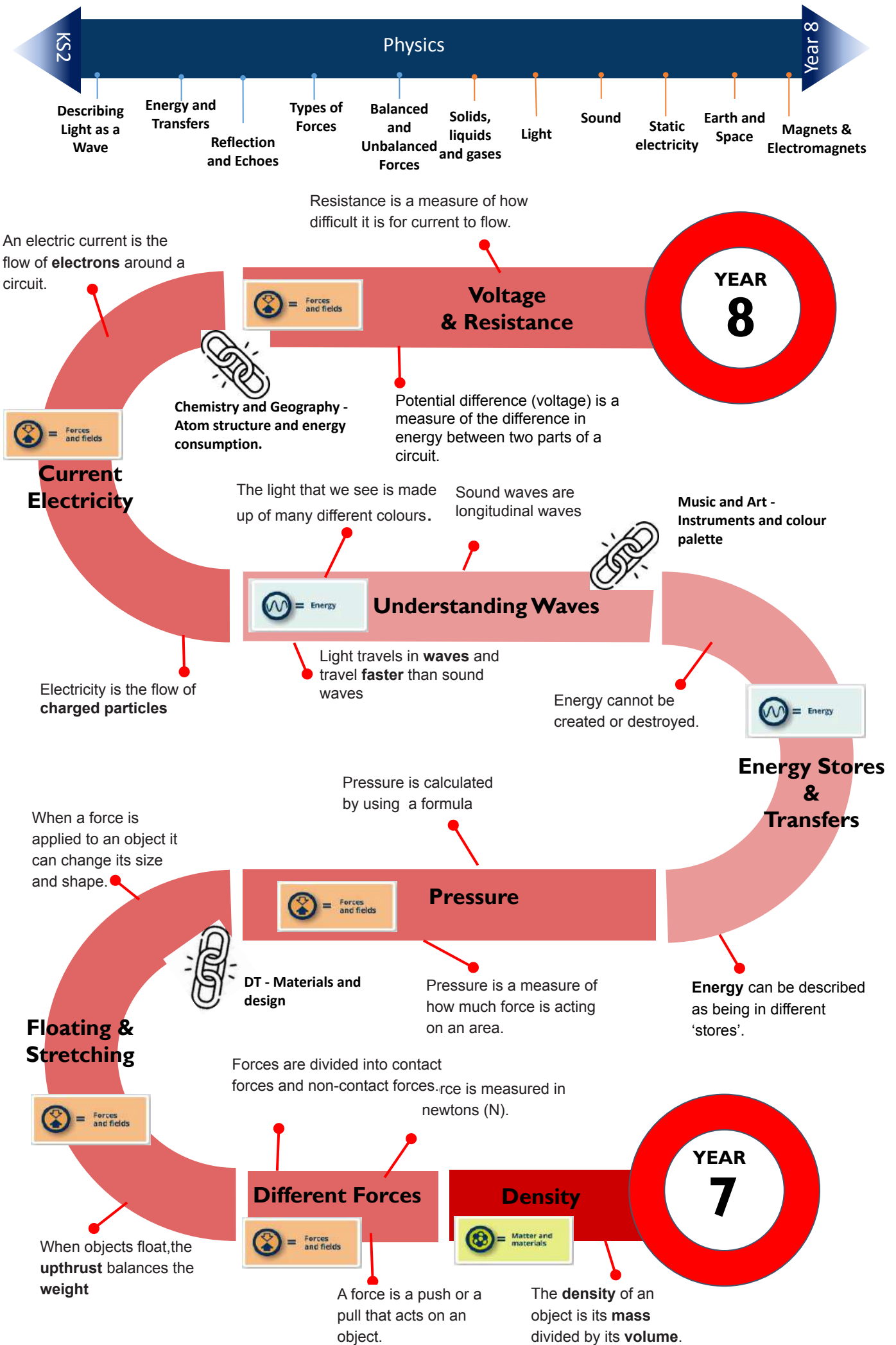


Year 7 - Physics KS3

At KS2 you will have learnt about - Forces and how objects are affected, Electricity, Light and Sound Waves, Friction and comparing materials.

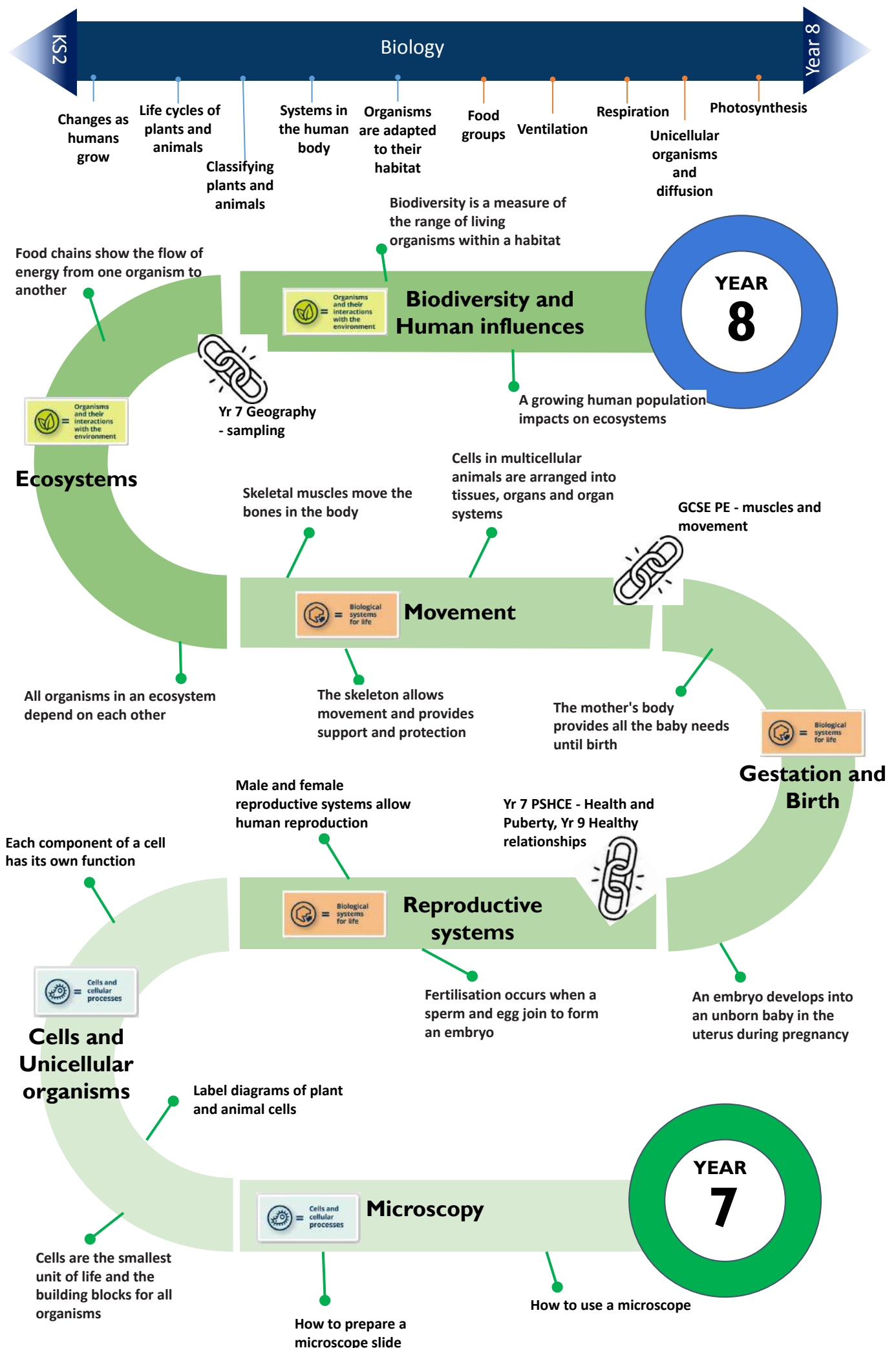
At KS3 you will be introduced to the 3 big ideas in Physics - Energy, Matter and materials, Forces and fields.



Year 7 - Biology

At KS2 you will have learnt about living things - classification, life cycles, body systems, growth and adaptations.

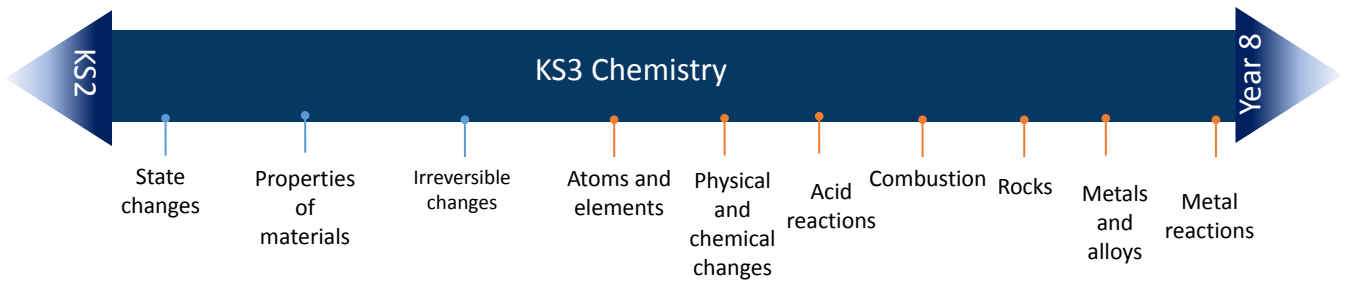
During year 7 you will be introduced to the 3 big ideas in biology - Cells and cellular processes, Biological systems for life and Organisms and their interactions with the environment.



Year 7 - Chemistry

At key stage 2, you will have compared and grouped together everyday materials based on their properties and demonstrated that changes of state are reversible changes. You will have also come across some changes that make new substances that are not reversible.

In KS3 we will continue this in the 3 big ideas of Chemistry, materials and their properties, chemical changes and our Earth and its atmosphere



A chemical formula tells us the number and type of atoms in a molecule

Earth and atmosphere



Understand the difference between an atom and a molecule

The atmosphere is a mixture of gases



Geography-Climate and Weather

Understand what neutralisation is and why it is a chemical change

Neutralisation



Word equations can be used to model reactions

Understand the difference between mixtures and pure substances

Mixtures



Chromatography can be used to separate soluble substances

Alkalis are solutions with common properties

Acids



Acids are solutions with common properties

Mathematics Calculate Rf values

Solutions



Dissolving can be used to separate soluble from insoluble substances

A pure substance contains one type of particle

Substances are made of particles

Solids, liquids and gases



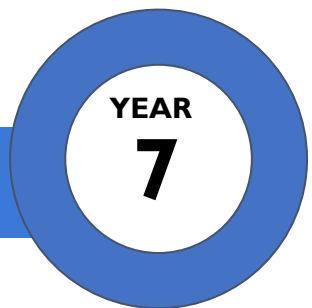
Some substances are soluble some are insoluble

Solids, liquids and gases can be modelled using particle diagrams



Physics - states of matter

Different materials have different physical properties



-  = Materials and their properties
-  = Chemical changes
-  = Our Earth and its atmosphere