

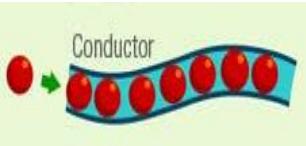
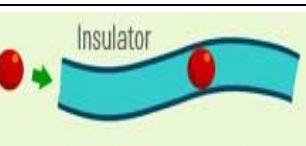
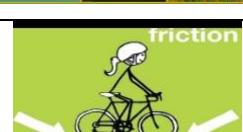
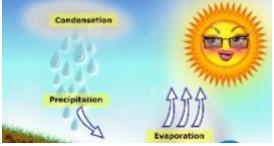


Science Core Concepts

At Royston St John Baptist Primary School, we want to build a curriculum that promotes remembering. We believe it is essential that the ‘very bones’ of our curriculum across years and across subjects needs to link up in a highly well thought out way, so that knowledge taught in one subject is explicitly reinforced and revisited in not only other subjects, but in subsequent years.

Each time a concept is encountered within a different context, not only is the concept more likely to be remembered, the understanding of that concept becomes more nuanced. We ensure that this revisiting is done in a deliberate, planned way and not as an inconsequential aside along the lines of ‘remember when you learnt about the climate of the Arctic Circle’. References to previously studied content need to build on or develop previous learning, as well as strengthening students’ ability to remember the terms. These links form the bones of our curriculum.

These Core Concepts are carefully sequenced in our Science Scheme of Learning to ensure our children arrive at secondary school with a sophisticated understanding, grounded in different contexts.

Core Concept	Definition	Times Examined
	Extinction	Extinction is generally considered to be the death of the last individual of the species.
	Conductor	A conductor is a material that permits a flow of energy. A material that allows the flow of charged particles is an electrical conductor.
	Insulator	An insulator is a material or device which restricts the flow of energy e.g. electric and thermal.
	Reproduction	The production of offspring by a sexual or asexual process.
	Orbit	This is the curved path an object takes around a planet, star or moon.
	Habitat	A place where an organism or a community of organisms lives, including all living and non-living factors or conditions of the surrounding environment.
	Friction	Friction is the resistance to motion of one object moving relative to another.
	Evaporation	Evaporation is the process by which a liquid turns into a gas.
	Condensation	Condensation is the process by which water vapour in the air is changed into liquid.