

Physics Curriculum Map

Curriculum Intent

To create a Physics curriculum that:

- Enthuse students about the natural world and the universe around them through a STEM lens.
- Coach students to Think Like a Scientist.

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 7	What are drag forces and how can they be used?	What are balanced and unbalanced forces?	How does sound travel?	Why can we hear echoes?	What is the law of reflection?	How do we see different colours?
Year 8	How are series and parallel circuits different?	What is conduction, convection and radiation?	How do renewable energy resources produce electricity?	How is speed calculated?	What causes pressure?	Why does the Earth have seasons?
Year 9	How is acceleration calculated?	How do factors that affect thinking and braking distance affect stopping distance?	What forces act on a sky diver as they jump out of a plane, fall through the air and land on the ground?	What are the differences between the plum pudding model and the nuclear model of the atom?	Why are there flat parts on heating and cooling graphs?	Why does pressure decrease with increasing altitude but increases with increasing water depth?
Year 10	How would you investigate the effect of force on the extension of a spring and	How does a hydraulic system work?	What causes electrical resistance?	How do generators and transformers work?	How could you determine the velocity of the sea's waves?	How are the waves of the electromagnetic spectrum useful?

	calculate the spring constant?					
Year 11	What are the characteristics of alpha, beta and gamma radiation?	How are nuclear fusion and nuclear fission different?	What is the Big Bang Theory?	Revision	Revision	Revision