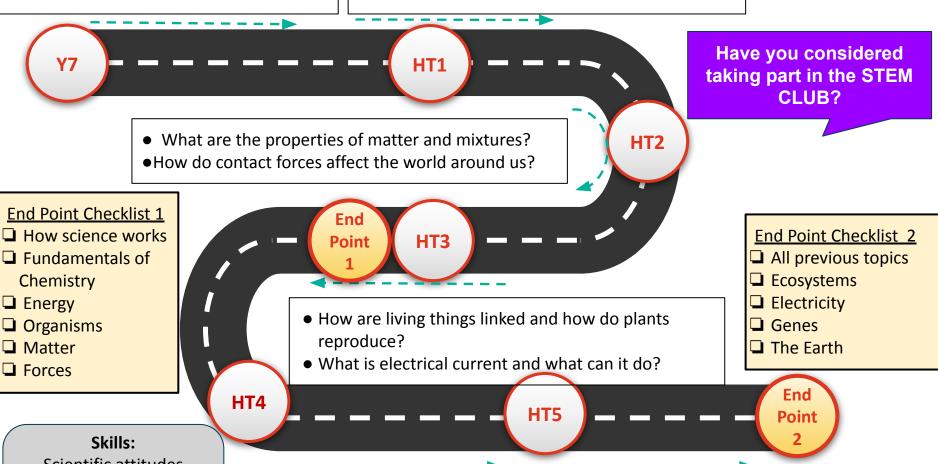
Science Road Map

Learning in Science sequenced by year

Science Progress: Y7

- How do scientists design and carry out practical enquiry?
- What is matter and what is it made of?
- What is energy and how can it be transferred?
- What are the building blocks of living things and how can we observe them?





Scientific attitudes
Experimental skills and
investigations
analysis and evaluation
Measurements

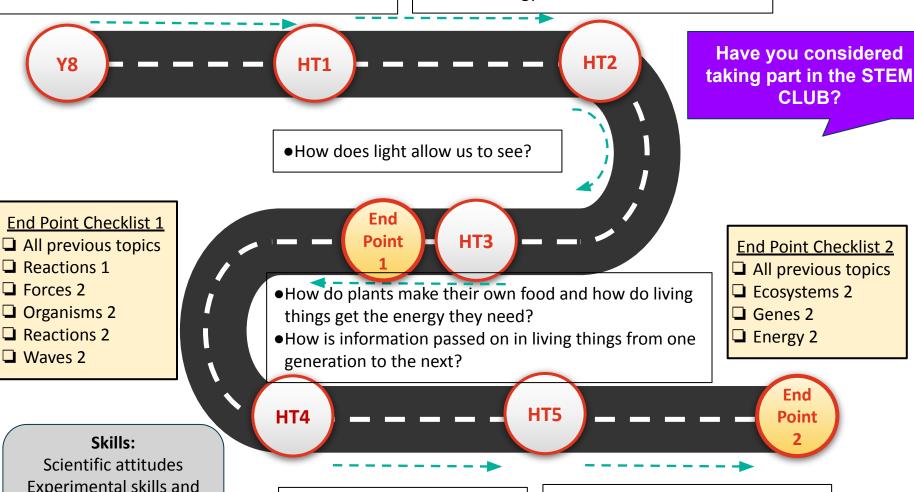
 Why are all living things different and how do humans reproduce?

- What is the earth made of and how is it affected by objects in space?
- What is sounds and how do we hear it?

Science Progress: Y8

- How do metals react and what affects their reactivity?
- How do fields and non-contact forces act?
- How do Humans get all the gases and nutrients they need?
- How is energy linked to chemical reactions?





Scientific attitudes
Experimental skills and
investigations
analysis and evaluation
Measurements

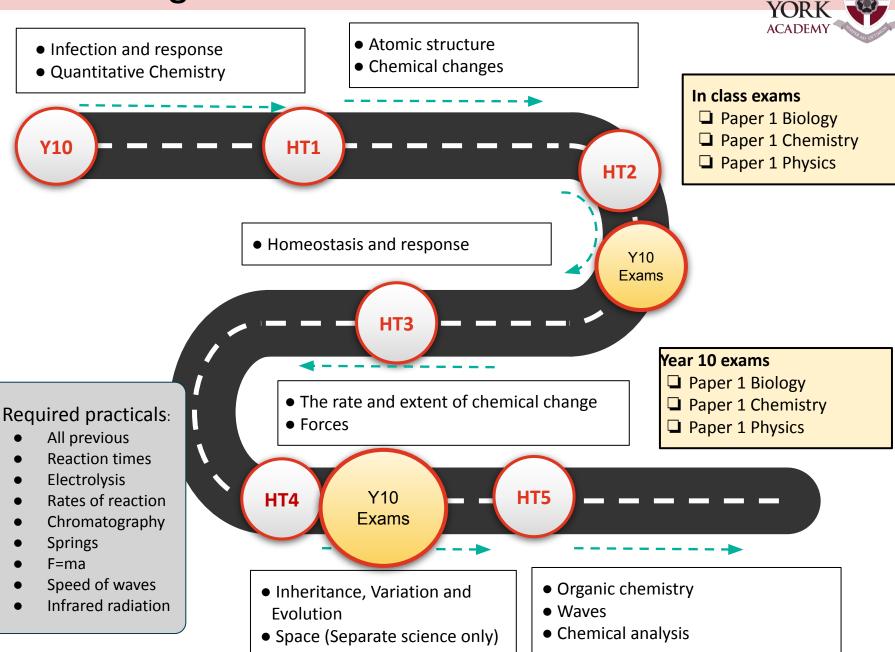
 How is energy transferred in electrical circuits?

- Where do humans get all their resources from?
- STEM week

Science Progress: Y9 VALE OF YORK **ACADEMY** Energy Cell biology • Atomic structure and the periodic table This year, during options, you can choose to do either Separate science (3 HT1 **Y9** GCSEs) or Combined HT2 science (2GCSEs). • Organisation in Animals **End Point Checklist 1** ☐ All previous topics **End Point Checklist 2** Energy **End** ☐ Atomic structure HT3 All previous topics **Point** Organisation and the periodic Bonding table ■ Electricity Cell biology Organisation in Plants Bonding **End** Required practicals: HT5 HT4 **Point** Microscopes Specific heat capacity **Enzymes** Resistance Ohmic and non-ohmic • Bioenergetics Electricity conductors Energy of Reactions Food tests • Particle model of matter Exo/Endothermic **Photosynthesis**

Density

Science Progress: Y10



VALE OF

Science Progress: Y11 VALE OF YORK Ecology **ACADEMY** • Chemistry of the atmosphere • Revision for mocks Using resources Magnetism and Electromagnetism Chemistry paper 2 Physics paper 2 Biology paper 2 Mocks **Y11** HT1 HT2 • Targeted revision from mocks Required practicals All previous Purifying water Field studies HT3 Revision for mocks HT4 Mocks **GCSE Exams** Paper 1 Biology 3456789 • Targeted revision Paper 1 Chemistry from mocks Paper 1 Physics U C A*