## PHYSICS

## AUTUMN 1

| Energy <br> Energy stores, energy efficiency, Sankey diagrams. |  | Prior Learning <br> Students have had studied energy transfer <br> in Year 7 where they are introduced to |
| :---: | :---: | :---: |
| AUTUMN 2 |  |  |
| Energy <br> Energy resources, generating electricity. | Forces <br> Balanced/unbalanced, speed, acceleration. | Prior Learning <br> In Year 7 Students study forces, speed and non-contact forces. In year 8 they cover work and pressure. |

## SPRING 1

## Forces

Distance-time graphs, moments, work done.

## SPRING 2

## Electricity

Generating electricity, potential difference \& current.

## SUMMER 1

## Electricity

Thermistors, Ohm's Law, LDRs, static electricity.

## SUMMER 2

## Practical Skills

Electrical circuits, levers, Newton meters.

Prior Learning
In Year 7 Students study Forces, speed and non-contact forces. In year 8 they cover work and pressure.

## Prior Learning

In year 8 students have covered electricity. They have also covered the idea of energy transfer in Year 7 and 9.

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## CAREERS LINKS

Engineer, radiographer, geophysics, meteorology, robotics, healthcare, energy generation, astronaut, astronomer, materials science, sound engineer, architect, mechanical engineer, structural engineer, civil engineer.

## CHARACTER LINKS

Motivation, resilience and teamwork (performance virtues).
Confidence and
determination
Listening, critical thinking and problem solving (intellectual virtues). Consideration and construction of moral and ethical arguments in science (moral virtues).

KEY ASSESSMENT

## DATES

Summative and synoptic testing in October, February and May.


[^0]:    Prior Learning
    Identifying variables, method writing,
    Handling data taught in year 7, 8, 9

