

LEARNING JOURNEY

Physics



P5 Forces 2 - Motion

Year 10 Summer Term

Building on motion topics studied in Key Stage 3, you will now analyse motion using the concept of vectors; quantities with size and direction.

Motion & Forces

Vectors and Scalars

Define these terms and find the resultant of two or more vector quantities

Displacement

You will use explore processing vectors, such as by scale diagram, to find an objects displacement

Speed and

Distance-Time graphs

You will calculate speed and compare to displacement.

Velocity-Time graphs

You will describe a journey of an object and calculate its velocity.

Acceleration:

You will apply Newton's 2nd Law of Motion to investigate the factors that affect the acceleration of a vehicle

TUDOR HABITS

You will develop the Tudor Habit of being open to failure and feedback when solving speed calculations from graphs.

VOCABULARY

Vector
Scalar
Gradient

Displacement

Velocity
Acceleration