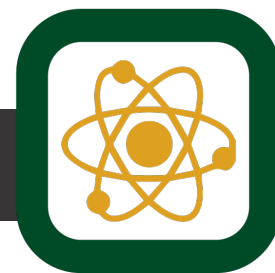


# LEARNING JOURNEY

## Physics



### MOTION

Year 7 Summer Term

Everyone has an understanding of what speed means. In this unit you will learn how physicists describe speed and changes of speed called acceleration. You will use your new skills in calculations and formulae and draw graphs that show a rate of change.

Just as important as speeding up is knowing how to slow down again! You will also learn important factors that affect road safety and how vehicles stop in an emergency.

#### Average Speed

You will learn why all measured speeds are really averages and make calculations including relative speeds.

#### Distance-Time Graphs

Graphs are used in physics to represent all kinds of changes. These ones show distances and speeds!

#### Speeding Up

Learn what really makes a roller-coaster fun (it's not just speed) and calculate accelerations.

#### Slowing Down Safely

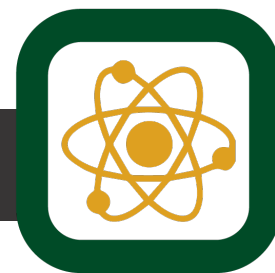
You will learn about why cars and other vehicles may take longer to stop in an emergency.

**TUDOR HABITS AND VALUES:** Physics uses calculations and graphs to represent real-life situations. Remain open to failure/feedback to improve your skills.

**VOCABULARY:** Speed, Relative Motion, Rate, Gradient, Velocity, Accelerate, Decelerate, Stopping / Thinking / Braking Distance

# LEARNING JOURNEY

## Physics



### MOTION

Year 7 Summer Term

Everyone has an understanding of what speed means. In this unit you will learn how physicists describe speed and changes of speed called acceleration. You will use your new skills in calculations and formulae and draw graphs that show a rate of change.

Just as important as speeding up is knowing how to slow down again! You will also learn important factors that affect road safety and how vehicles stop in an emergency.

#### Average Speed

You will learn why all measured speeds are really averages and make calculations including relative speeds.

#### Distance-Time Graphs

Graphs are used in physics to represent all kinds of changes. These ones show distances and speeds!

#### Speeding Up

Learn what really makes a roller-coaster fun (it's not just speed) and calculate accelerations.

#### Slowing Down Safely

You will learn about why cars and other vehicles may take longer to stop in an emergency.

**TUDOR HABITS AND VALUES:** Physics uses calculations and graphs to represent real-life situations. Remain open to failure/feedback to improve your skills.

**VOCABULARY:** Speed, Relative Motion, Rate, Gradient, Velocity, Accelerate, Decelerate, Stopping / Thinking / Braking Distance