

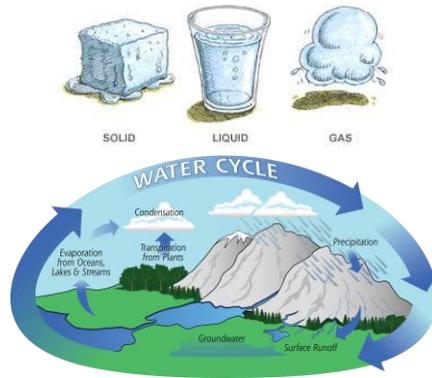
## Learning Journey Map



YEAR 4



Title: **States of Matter**



**Key Curriculum Areas:**  
Science, D&T and Geography

### Our Curriculum Drivers

- Real, Relevant, Immersive & Purposeful
- Creativity
- Problem Solving & Thinking Skills
- Nurturing responsible Citizens

**Big Bang:** How fast will an ice cube melt?

**Celebration:** Parent in class sewing afternoon (linked to D&T)

### Workshop:

Biome and climate workshop in school

### PSHE: Valuing differences

We will learn to define the terms negotiation and compromise and understand the need to manage conflict and differences. Children will also learn that they have different relationships with different people and explore how we manage this. We will also discuss and explore how people are different to each other and discuss ways to celebrate this.

This term value is... **Kindness**

### Science: States of Matter

Children will learn about states of matter, to begin they will compare and group materials together, according to whether they are solids, liquids or gases. Children will then observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C). Children will use a variety of enquiry types throughout and continue to develop their working scientifically skills.

### D&T: 2d shape to 3d product

We will learn to create a 3d winter decoration product from 2d shape of material. Children will investigate and evaluate existing 'winter' products. Children will develop stitching techniques and learn to embroider decorations.

### Computing:

We will be learning the importance of E-safety and understanding ways we can keep safe online. We will also use DB Primary to begin to develop our formatting and coding abilities.

### English:

#### Key text(s): **Ice Trap and Once upon a raindrop**

In English we will be learning to write a diary entry using the text *Ice Trap*, which follows the story of Shackleton's expedition. We will be exploring the key features of the text type before writing our own diary entry. We will also explore water poetry linked to our Geography learning and learn to write a formal letter. We will be editing and revising our work before we publish for a purpose. During our daily reading lessons, we will teach key reading skills using VIPERS acronym and foster a love of reading through reading for pleasure sessions. In Spelling, we will teach strategies to support spelling, of homophones and apostrophes. Each spelling unit will end with an end of unit dictation activity and children will be sent these words home in advance.

### RE: Sikhism (Guru Nanak's life and impact)

Sikhism, we will be exploring the life of Guru Nanak. Children will learn to explain how events from the life of Guru Nanak teach Sikhs to treat others with respect and equality explain ways in which each of us can be a good influence in the lives of other. In addition, children will be able to list some of Guru Nanak's key teachings and give examples of how Sikhs put Guru Nanak's teachings into practice.

**Music:** We will improvise and compose music based on Van Gough's *Starry night*. We will perform and record our compositions.

### Spanish:

We will learn the twelve months of the year and how to say the date. We will learn to ask and answer when birthday are

### Maths:

#### Number and Place Value:

We will develop our understanding of identifying value of each digit in a 4-digit number, round to nearest 10 and 100 and apply these to problem solving contexts

#### Fractions and Decimals

We will learn how to find families of common equivalent fractions using images and diagrams, count up and down in hundredths and divide 1 and 2 digit numbers by 10 and 100.

#### Measure: conversion

We will learn how to convert between different units of measure (e.g. kilometre to meter; hour to minute). Also, estimate, compare and calculate different measures, including money in pounds and pence

#### Measure: Time

We will read write and convert time between analogue and digital 12- and 24-hour clocks. We will solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days

### Geography: The Water Cycle

During our unit, children will learn to understand the concept of weather patterns, climate and the world's climate zones. Children will understand the main processes of the water cycle, describe the water cycle's effects on the climate and physical geography of earth. Finally, children will learn to identify the key features of the biomes and vegetation belts.

### PE: Dance – telling a story

We will dance in formation, within a group, and understand the importance of formation as part of the story

### Games – Controlling and receiving

We will learn how to use space and why it is important in invasion games.