

## Science: States of Matter including the Water Cycle

In science, we will be learning about states of matter and the water cycle. We will be comparing and grouping materials together according to whether they are solids, liquids or gases. We will be learning what happens when materials are heated or cooled and investigating the temperature at which materials change state. We will be learning the part that evaporation and condensation has in the water cycle.

### Key Knowledge:

- Matter exists in one of three states: solid, liquid or gas.
- Matter can change state when energy is added to it. This can be by heating, cooling or pressure.
- When matter changes state, the molecules do not change but the way they move does.
- All matter has mass.
- Evaporation is the process of heating a liquid into a gas.
- Condensation is the process of cooling a gas to a liquid.
- Evaporation is the process by which liquid water changes to water vapour in the water cycle, using energy from the sun.
- Condensation is the process by which water vapour in clouds cools at altitude to reform as liquid or solid water which falls as precipitation in the water cycle.

### Key Vocabulary:

- states of matter
- mass
- energy
- evaporation
- solid
- liquid
- gas
- condensation
- matter
- precipitation

## History: The Tudors

In history, we will be focussing on the Tudors. We will be finding out where the Tudors are found on a chronological timeline, including when monarchs were crowned. We will be studying sources of information to learn more about the War of the Roses, Henry VIII and his six wives, the reformation and beginnings of the Church of England, and the reign of Elizabeth I.

### Key Vocabulary:

- Tudor
- rose
- monarch
- reign
- dynasty
- reformation
- Catholicism
- annul
- dissolution of monasteries

### Key Historical Figures:

- Henry VII
- Henry VIII
- Edward VI

### Key Knowledge:

- The Tudors ruled England from 1485 to 1603.
- The first Tudor king was Henry VII.
- The Tudor period began following the battle of Bosworth field, which ended the War of the Roses.
- Henry VII's son, Henry VIII, followed him as king of England.
- Henry VIII married six times and beheaded two of his wives.
- Henry VIII's wives were: Catherine of Aragon, Anne Bolin, Jane Seymour, Anne of Cleves, Katherine Howard and Catherine Parr.
- The reformation began in 1534 when Henry VIII wanted to divorce Catherine of Aragon. This was the beginnings of the Church of England as the Catholic Church did not allow divorce.
- Henry VIII's son, Edward VI, ruled after him, followed by his daughters Mary I and Elizabeth I.
- Elizabeth I was one of the most powerful monarchs.
- Tudor houses were usually built from timber (wood) and wattle and daub.



## Computing: Online Safety and Spreadsheets

### Key Vocabulary:

- spreadsheet
- format
- formatting
- data
- analyse
- currency

In Computing, we will learn about online safety and how to create spreadsheets. We will investigate ways to share information online and create our own online safety materials. We will create our own spreadsheets using formatting tools and create a line graph.

### Key Knowledge:

- Rules are needed to keep children safe when exchanging learning and ideas online.
- Information found on the internet may not be accurate or reliable and may be used to manipulate or persuade. It may be fact, fiction or opinion.
- It is important to keep personal information private online, and if it is shared online it may be seen and used by others.
- Formatting tools can be used to add formulae to cells.
- A series of data can be inputted into a spreadsheet to create a graph or chart.
- Spreadsheets can be used practically to analyse data.
- In spreadsheets, the currency can be formatted using the currency tool.

Our topic in RE is Christianity. Our main focus will be to find out how Jesus taught about God and values through parables.

## Religious Education: Christianity

### Key Knowledge:

- A parable is a story that Jesus told.
- Jesus tried to teach the people through stories.
- The Parable of the Tax Collector and the Pharisee teachers about pride and humility.
- The Parable of the Friend at Midnight teaches about prayer.
- The Parable of the Judge and the Widow explores the relationship between a Christian and God.

### Key Vocabulary:

- Jesus
- God
- Parable
- values
- pride
- humility
- prayer

## Design & Technology: Stiff and Flexible Sheet Materials

### Key Vocabulary:

- design
- design criteria
- purposeful
- materials
- techniques
- join
- running stitch
- aesthetic
- goals
- finish

In D&T, we will be making a Tudor purse. We will be developing our design and sewing skills, using the Tudor rose design as our influence.

### Key Knowledge:

- Designs need to meet explicit goals in order for a project to be successful.
- Successful designs are purposeful, practical and appealing.
- Appropriate tools, equipment, techniques and materials are chosen for a specific task and need to be selected carefully.
- Fabrics can be joined using techniques such as running stitch, glue and stapling.
- Evaluating and assessing completed projects are important in order to improve future projects.