

# In Your Element

*Earth, Wind, Fire and Water*



At the end of this theme, children should...

- Know how to explain the process of the water cycle
- Know how a river is formed
- Know how to locate UK and world rivers on a world map
- Know the key features of a river system
- Know how rivers are used
- Know how to locate rivers on an ordnance survey map
- Know how to investigate the features of our local river
- Know how to name and describe the layers of the Earth
- Know how and where mountains are formed
- Know why volcanoes happen
- Know that volcanoes affect people's lives and can explain why
- Know what earthquakes are and where they occur
- Know the difference between a tornado, hurricane and a cyclone (covered in IT Digital Literacy sessions)
- Know how to design a playground with a variety of structures
- Know how to build a range of structures
- Know how to improve and add detail to structures
- Know how to create a surrounding landscape

*enjoy*

**Learning Environment  
Opportunities**



**Studio graphics** - world map - volcanoes, earthquakes, rivers

**Woodland Workshop** - natural resources to create river structures



**Now Press Play** - Rivers, Water Cycle or Natural Disasters.



*achieve* **Question**

How do the four elements affect our world?

*inspire* **Suggestion**

Create a mock up of a stages of a river on the playground. Use water to show how meanders are created.

*inspireenjoyachieve*

THE WATER CYCLE

UK AND WORLD RIVERS

HOW IS A RIVER FORMED?

HOW ARE RIVERS USED?



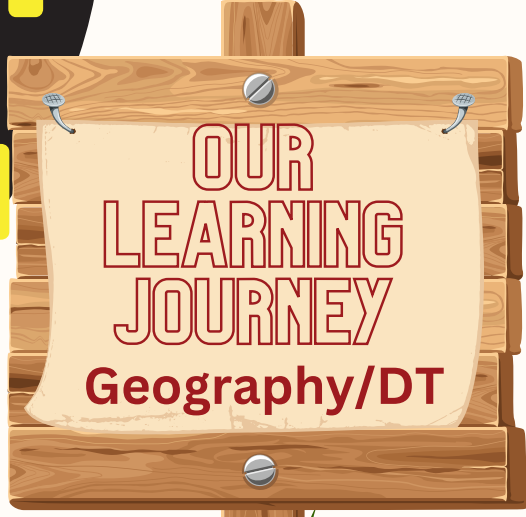
FEATURES OF A RIVER

LOCATE RIVERS ON MAPS



LOCAL RIVER

LAYERS OF THE EARTH



MOUNTAINS

WHY VOLCANOES HAPPEN

EFFECT OF VOLCANOES

TYPES OF WIND

EARTHQUAKES

BUILD A RANGE OF STRUCTURES

SURROUNDING LANDSCAPE



DESIGN A PLAYGROUND

IMPROVE AND ADD DETAIL

inspireenjoyachieve

USING  
EVAPORATION

REVERSIBLE  
CHANGES

CHEMICAL  
REACTIONS

RUSTING

BURNING

ACIDS AND  
BICARBONATE OF SODA



## Changes of Materials

# THEME VOCABULARY

## Geography

earthquake  
hurricane  
lava  
magma  
minerals  
mountains  
tsunami  
typhoon  
tectonic  
river mouth  
waterfall  
source  
tributaries

## DT

apparatus  
design criteria  
equipment  
playground  
landscape features  
cladding  
enhance  
surrounding

## Science

solute  
solvent  
reversible  
evaporate  
chemical changes  
effervescence  
fair test  
corrosion  
combustion  
extinguish  
reaction  
carbon dioxide

