

## Knowledge Organiser – Year 3

### Does what we wear matter?

#### Geography

We are going to be using maps, atlases, globes and computer mapping to locate countries and describe their features. We are going to understand that climates differ around the world and how this might affect what we wear.

#### Design and Technology:

We are going to develop and use a criteria based upon the seasons to design a clothing product that are usable and for a particular audience (spring clothing – waterproof, still warm and changeable). We are going to be able to generate, develop and communicate ideas in different ways (including, sketches, diagrams, prototypes, pattern pieces and computer-aided design).

We will be able to select the correct tools and equipment to make the clothing accurately (cutting, shaping, joining and finishing). We will be able to select from a range of materials and components meeting the purpose of the item of clothing.

#### Science – Properties of Materials

This half term we are going to be looking at the properties of materials – hardness, solubility, and transparency including their thermal conductivity.

We will be looking at different lines of scientific enquiry This includes setting up comparative and fair tests to investigate which materials would make the best seasonal clothing (insulation in winter, cooler and lighter in winter, waterproofing etc).

We will be understanding and explaining that light is needed to see, that dark is the absence of light and that light from the sun can be dangerous and there are ways to protect our eyes looking at different sunglasses.

We will also be able to recognise that shadows are formed when a light source is blocked by an object. They will be able to consider the patterns in the way that the size of shadows change. How exciting!

#### Key Vocabulary

hardness

waterproofing

softness

climates

solubility

shadows

transparency

insulation

conductivity

seasonal

