Uses of Everyday Materials –

Lesson	Learning objectives
1	**Changing the shape of material** ▪ revise work on materials from Year 1 ▪ find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.
2	**Materials used for more than one thing, more than one material used for the same thing – spoons** ▪ compare and contrast the advantages of using different materials for the same object ▪ list the uses of a particular material in and around school
3	**Natural and man-made, old and new materials** ▪ recognise that some materials are naturally occurring and some are not ▪ name some naturally occurring materials ▪ compare the range and use of materials in a different time period with their use nowadays ▪ describe in simple terms how and why the use of materials has changed
4	**Comparing the strength of crepe paper ropes** ▪ ask simple questions and recognise that they can be answered in different ways ▪ performing simple tests ▪ gather and record data to help in answering questions.
5	**Life of John Boyd Dunlop** ▪ know the contribution made to materials science by John Boyd Dunlop ▪ Plan an investigation into material properties
6	**Materials investigation** ▪ investigate the best paper for a food bag

Animals including Humans –

Lesson	Learning objectives
1	**Animals and how they grow** - know that animals grow in different ways - know that mammals have live young but other animals do not - take a first look at animals to be observed (tadpoles, chicks, butterfly etc.)
2	**How humans grow** - describe how humans grow - describe the basic needs of animals – food, air, warmth - observe the difference in growth of the animals since the previous week
3	**Eating to stay healthy** - state some ways in which humans stay healthy - know that eating a good diet is helps us stay healthy - know that foods can be sorted into groups - observe the difference in growth of the animals since the previous week
4	**A healthy diet** - state the basic foods that are needed for a healthy diet and those foods that should be eaten in moderation - design a healthy diet - observe the difference in growth of the animals since the previous week
5	**Keeping clean and staying fit** - How humans stay healthy – hygiene, exercise and rest - observe the difference in growth of the animals since the previous week
6	**How our animals grew** - Collate observations of animals into a single document to describe the growth of the animals in the study

Plants –

Lesson	Learning objectives
1	**What is a seed?** ▪ distinguish between seeds and other similar materials ▪ give a basic explanation of what a seed is ▪ know that plants have stem, leaves, roots (recap of Year 1)
2	**What do plants need to stay healthy?** ▪ predict whether plants need water, warmth and/or light to grow ▪ know that plants lose water from their leaves ▪ know that bulbs and seeds differ in structure and formation ▪ make appropriate measurements and observations of plant growth
3	**Plants we eat** ▪ know that plants provide humans and other animals with food ▪ identify the parts of the plant that are consumed for a range of vegetables ▪ make measurements and record observations of the growth of seeds and bulbs
4	**How plants change through the seasons** ▪ describe how plants change through the seasons ▪ know that some plants are perennial and some are annual or biennial ▪ describe the difference between perennial plants and annual plants
5	**What do seeds and bulbs need for growth?** ▪ know, through investigation, that seeds and bulbs need water and warmth but not light to grow ▪ know that growing plants need light to stay healthy ▪ to draw conclusions from a range of experiments about what plants need for growth

Living Things and their Habitats –

Lesson	Learning objectives
1	**Living and non-living things** ▪ classify items as living things, things that were alive and things that have never been alive ▪ understand that plants are living things
2	**Habitats** ▪ learn the term habitat and micro-habitat ▪ give examples of different habitats
3	**Types of Habitat– woodland*** ▪ describe a woodland habitat ▪ describe the kind of microhabitats found in woodland ▪ know some of the common woodland animals and plants
4	**Types of Habitat – the seashore*** ▪ describe a seashore habitat ▪ describe the kind of microhabitats found in the seashore ▪ know some of the common seashore animals and plants
5	**Pond dipping** ▪ know that living things should be treated with respect ▪ explore a pond habitat ▪ identify some animals and plants living in and around ponds
6	**Food chains** ▪ know that plants do not need to eat because they make their own food ▪ know that some animals are carnivores, some are herbivores and some are omnivores ▪ understand the term food chain and cite some simple examples of food chains