

## Science Non-Negotiables

### Nursery

- Can plant a seed/plant
- Name common mini-beasts (worm, caterpillar, butterfly, spider, ant etc.)
- Ask questions about the outdoor environment

### Reception

- Can compare mini-beasts saying how they are similar or different
- Name the parts of a plant (roots, stem, leaves, petals)
- Can compare materials by saying which are rough, smooth, shiny, soft, hard and bouncy

### Year 1

- Make a prediction
- Name the main body parts (head, neck, arms, elbows, knees, face, ears, eyes, hair, mouth, teeth)
- Know what plants need to grow (light, water, nutrients)
- Use simple equipment (magnifying glasses, torches, egg timers, binoculars)

### Year 2

- Make prediction and give a reason
- Use tape measures/rulers to measure to the nearest cm
- Record results in a given table
- Can recognise when simple comparisons are unfair

### Year 3

- Draw own results tables
- Make a 2 point conclusion
- Measure liquid using a measuring jug/beaker/cylinder to the nearest 50ml
- Identify and name science equipment (measuring jug, beaker, tape measure, stop watch, thermometer, magnifying glass, spring)

### Year 4

- Write own question to investigate
- Use a stop watch, knowing how to record the time to the nearest second
- Use a thermometer to measure to the nearest degree
- Name 2 famous scientists and know why they are famous

### Year 5

- Use a Newton Meter to measure force (choosing most appropriate Newton Meter to use)
- Identify and name science equipment (Newton meter, beaker, funnel, sieve, filter paper, trundle wheel, cell)
- Draw a bar graph independently
- Name 3 scientists and know why they are famous

### Year 6

- Work out the average of 3 results/measurements