# Science at Badsley

#### **Overall Rationale**

At Badsley Primary School we believe that a high-quality Science curriculum should be ambitious and designed to give all pupils the knowledge and cultural capital they need to succeed in life. We support children to understand the world with increasing independence through the specific disciplines of biology, chemistry and physics and learn how Science has changed (and continues to change) our lives and is vital to the world's future prosperity.

#### **Content and Sequencing**

Each class covers six units of science per year, taken from the Oxford Owl Mastery science curriculum Everyone has access to the Science National Curriculum. (in line with the National Curriculum)

- EYFS Understanding the World
- Year 1- Materials, Autumn and Winter, Animals, Spring and Summer, Plants
- Year 2- Animals, Environment, Materials, Habitats, Plants
- Year 3- Animals, Rocks, Plants, Light, Forces
- Year 4 –Animals, Electricity, Living Things, States of Matter, Sound
- Year 5- Earth and Space, Forces, Properties of Materials, Living Things, Animals
- Year 6-Light. Living Things, Evolution, Electricity, Animals

### Meeting the needs of all Learners

Adult support and additional scaffolding are provided for those learners who require it. Paired and group science work also support learners.

Learners who grasp concepts more rapidly will be encouraged to 'dive deeper' into the topic areas and take more leadership over their own lines of enquiry.

## **Key Concepts**

science, allowing children to embed the that encourage every child to explore,

skills:

Observe, Identify, use, explore, compare, predict, investigate, explore, demonstrate, explain, recognise.

#### **EYFS**

The following key concepts are threaded Science at Foundation Stage is covered in the 'Understanding the World' and repeated throughout every unit of area of the EYFS curriculum. It is introduced indirectly through activities

> problem solve, observe, predict, think, make decisions and talk about the wawriting hypothesis and conclusions orld around them.

# **Links to Other Subjects**

**Reading** – secondary research sources **History** - scientific influences from the past **English** – presenting findings, scientific vocab,

**Maths** – accurate measuring, graphing results, reading tables

**DT** – building bridges in forces/designing electrical games

# **Retrieval Practice**

Each lesson begins with a knowledge quiz which retrieves the information learned in the previous lesson. Class teachers use these quizzes to I highlight gaps in understanding and possible misconceptions so they can revisit these areas.

## **Assessment and Outcomes**

Science is assessed by the class teacher at the end of each block using the objective assessment grids. Names of individuals who have exceeded / not met the outcomes will be noted.

Common misconceptions/ difficulties will also be recorded to inform the I next year group teacher and to assist science leaders in their evaluation of the topics.

# **Subject Leader Responsibility**

- Leading regular CPD sessions for class teachers
- Monitoring progression book scrutiny
- Collecting assessment sheets and analysing whole school areas of weakness.
- 'Open door' support for teachers
- Pupil voice collecting opinions of the subject