

## Temple Ewell Church of England Primary School

### Science Policy

#### Rationale

Science has changed our lives and is vital to the world's future prosperity, and all pupils should be taught essential aspects of the knowledge, methods and uses of science. Through building up a body of key foundational knowledge and concepts, they should be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena. The main aspects of Science to be studied will be determined by the Programme of Study of the National Curriculum. They will be encouraged to understand how key foundational knowledge and concepts can be used for explanation of what is occurring and predict how things will behave. This foundational understanding will be consolidated through appreciation of specific applications in society and the economy.

#### Aims:

- To develop pupils' enjoyment and interest in science.
- To develop pupils' understanding of key scientific concepts and scientific skills.
- To ensure that children understand the relevance of what it is that they are learning.
- To build pupils' specialist vocabulary, which they can use with precision as they progress.
- To develop positive attitudes which encourage collaborative learning and perseverance.
- To develop pupils awareness of how science influences and affects our everyday lives.
- To develop pupils' cross curricula skills i.e. Literacy, numeracy and computer skills.

#### This will be achieved by:

1. To ensure that children learn through a range of **engaging activities**.
2. To encourage **collaborative learning** amongst the children.
3. To encourage **independent learning**. Children will be encouraged to explore, perform investigative practical work and solve problems.
4. Careful **planning and assessment** will enable children to progress **without repetition** of activities or content.
5. **Differentiation**, where appropriate, will allow all children to progress in their learning.
6. **Focusing learning** through the use of **Thinking Hats** and organising their ideas using ideas using **Thinking Maps**.

## The Science Curriculum:

Due to the mixed age class organisation of our school, pupils are taught the Science curriculum on a planned two year rolling programme.

- Each year group will cover units of work as shown in our **Science Long Term Plan**.
- Each of these units will be supported by the **Kent Scheme of Work for Science (2014)**, as well as ideas and activities from a range of other sources.
- **Lessons plans** will identify the intended learning (both skills and knowledge). They will also take into account: how to engage the children in the lesson, resources required, how children will be organised, how the children will record, differentiation, use of ICT to support learning, and particular vocabulary, and use of other adults.

## The Monitoring of Standards & Assessment

### Responsibility of the Class Teacher:

- Teachers assess pupils according to the Key Skills and Knowledge Levelled Outcomes. This information is then used to inform Teaching & Learning.
- Summative assessments are made by class teachers at the end of each unit of work.
- Marking is used to acknowledge achievements and to show the pupils what they need to do in order to improve. Scientific spellings are modelled and corrected (in line with the school's Marking Policy).
- A written report in respect of pupil's progress in Science is provided annually to parents. This is in line with the school Assessment Policy.

### Responsibility of the Science Leader:

- To develop and undertake, in conjunction with the Head Teacher, a monitoring schedule for each academic year. Including: work scrutiny, planning scrutiny, pupil conferencing and lesson observations.
- The science leader will maintain a collaboration with the linked school science leader.
- Support the development of the learning and teaching of science

## Resources

- Class teachers are responsible for informing the Science Leader of resources which are required in order to deliver their planned curriculum.
- Shared Science resources are stored in the resources room.
- Information books on Science topics are available in the school library.
- The whole school environment is used to maximum potential in order to support delivery of the science curriculum.
- School visits are planned regularly to enhance learning and help the pupils to relate scientific enquiry to the real world.

## Health and Safety

- The safe use of equipment, materials, places and spaces is promoted at all times. The Association for Science Education (ASE) document '**Be Safe**' has been adopted by the school as a guide to health and safety in science.
- All offsite activities will require the class teacher to perform a **risk assessment**.
- **CLEAPSS** will be contacted by teachers should they have a query concerning health and safety.
- All accidents and incidents are reported to the Headteacher who makes a decision as to appropriate action. This is in line with the school Health and Safety Policy.

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