



# Wellington Area Rural Federation



## SCIENCE

At our small rural schools, we believe that children should develop a sense of excitement, curiosity and fascination about Science. They should be encouraged to understand how Science can be used to explain what is occurring, predict how things will behave, and analyse causes. Science in our school is about developing children's ideas and ways of working that enable them to make sense of the world in which they live through investigation, as well as using and applying process skills. The staff at Wellington Area Rural Federation ensure that all children are exposed to high quality teaching and learning experiences, which allow children to explore their outdoor environment and locality, thus developing their scientific enquiry and investigative skills. They are immersed in scientific vocabulary, which aids children's knowledge and understanding not only of the topic they are studying, but of the world around them. We intend to provide all children regardless of ethnic origin, gender, class, aptitude or disability, with a broad and balanced science curriculum.

## INTENT

## IMPLEMENTATION

Our small rural schools are made up of Mixed Age Classes.

Sampford

Class One is Reception, Years 1 and 2.

Class Two is Years 3, 4, 5 and 6

Stawley

Class One is Reception and Year 1

Class Two is Years 2 and 3

Class Three is Years 4, 5 and 6

In ensuring high standards of teaching and learning in science, we implement a curriculum that is progressive throughout the whole school. Planning for Science is a process in which all teachers are involved to ensure that the school gives full coverage of, 'The National Curriculum programmes of study for Science 2014' and, 'Understanding of the World' in the Early Years Foundation Stage. Science teaching at our schools involves adapting and extending the curriculum to match all pupils' needs. Where possible, Science is linked to class topics. Science is taught as discrete units and lessons where needed to ensure coverage. Due to the mixed age classes in our school, Science units are taught on a two year rolling programme in Key stage 1 and a four year rolling programme in Key stage 2 (This has been adapted at Stawley School where Class 2 teaches Science on a 2 year rolling programme). This ensures progression between year groups and guarantees topics are covered. Teachers plan to suit their children's interests, current events, their own teaching style, the use of any support staff and the resources available. The progression of skills for working scientifically are developed through the Key Stages and scientific enquiry skills are of key importance within lessons. Scientific knowledge and enquiry skills are developed with increasing depth and challenge as children move through the year groups.



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### IMPACT

The impact and measure of this is to ensure children not only acquire the appropriate age-related knowledge linked to the science curriculum, but also skills which equip them to progress from their starting points, and within their everyday lives.

All children will have:

- A wider variety of skills linked to both scientific knowledge and understanding, and scientific enquiry/investigative skills.
- A richer vocabulary which will enable them to articulate their understanding of taught concepts.
- High aspirations, which will see them through to further study, work and a successful adult life.