Science Curriculum Intent Statement

Intent – What are we trying to achieve?

Our Science curriculum promotes high standards of enquiry to support pupils to gain an interest in the world around them. Our curriculum ensures pupils achieve our intent in Science and across other subjects, ready for their next steps in education or employment.

Learners often arrive with gaps in their basic science knowledge and understanding that others take for granted, often having had negative experiences at mainstream schools.

Students will follow a KS3 pathway, followed by an appropriate qualification in Science, from Entry Level, Level 1, Level 2 or GCSE Science

- Developing an interest in Science
- Allowing students to recognise Science in their everyday lives
- Strengthening key scientific skills including predicting, investigating, drawing conclusions and forming evaluations
- Experiencing a range of Biology, Chemistry and Physics topics from the National Curriculum
- Achieve and succeed in Science

Furthermore, we intend to:

- To develop children's practical maths skills using knowledge of number facts and strategies for problem solving
- To develop the skills and knowledge required for "real life" situations, and promote problem solving and logical thinking
- To use appropriate terminology and scientific language
- To have access to a wide range of resources to enrich and broaden their experience

Implementation – How are we going to do it?

Mathematics is taught as a distinct subject and as an integrate part of the curriculum in other areas, particularly in science.

Children follow the White Rose Mathematics scheme of work, and have opportunities to build success through Level 1 and Level 2 functional skills and GCSE courses. The White Rose Mathematics course covers the National Curriculum content of:

- Number skills and rounding
- Fractions, Decimals and Percentages
- Measures
- Properties of Shapes
- Collecting and Representing Data

Students also have access to other areas of the National Curriculum through their other lessons. Classes have access to Food Technology and Science resources in order to develop skills such as measuring and quantities.

Impact – How will we know if we are doing well?

Students will leave Riverside Meadows with:

- A Science qualification at a suitable level for their ability
- An understanding of science and a sense of intrigue about the world around them and how things work
- An ability to following a line of enquiry, make relationships and generalisations, develop an argument, justification and proof using scientific language

In addition, we will measure the impact of the Science curriculum through:

- Engagement in lessons
- Children's work
- Formative assessment in lessons
- Student voice
- Application of learning across the curriculum