

My targets and achievements in Scientific Enquiry

I can:

- Start to understand the importance of information from other sources
- Have an idea about what might happen
- Describe what I see
- Use non standard measures
- Talk about my work i.e. Things that familiar, it's red, it's cold.
- Draw pictures and simple charts e.g. Pictograms about my work
- Ask questions using words such as *How?* And *Why?*

I AM WORKING AT LEVEL ONE

My targets and achievements in Scientific Enquiry

I can:

- Use simple texts to find information
- Suggest ways to find out more about things I want to know
- Use simple equipment with non/standard measures to help me
- Use equipment and make observations
- Suggest how to make a test fair with support
- Describe observations and say whether I expected them
- Compare objects / living things / things that happen (three or more things)
- Record what I see on simple tables or charts e.g. Prepare two column table, bar chart
- Make simple comparisons (3 things), order results
- Use my senses to find out about things
- Ask questions such as '*What will happen if?*'
- Understand some of the scientific vocabulary

I AM WORKING AT LEVEL TWO

My targets and achievements in Scientific Enquiry

I can:

- Use simple texts to find information
- Suggest how my ideas might be tested and start to decide what observations and measurements I will need
- Measure length and mass using simple equipment with standard measures e.g. Meter sticks, measuring jugs, balances, timers, thermometers
- Predict what I think will happen in an experiment
- With help carry out a fair test and explain why it is fair / recognise when a test is fair or unfair
- Compare three or more things
- Record the results of my tests or experiments in a variety of ways including tables / charts / using the computer
- Can explain simple patterns from measurements taken
- Say what I have found out from my work
- Use some scientific vocabulary to explain my thoughts
- Understand the need to improve my work and make suggestions how to do this

I AM WORKING AT LEVEL THREE

My targets and achievements in Scientific Enquiry

I can:

- Choose information to help me from different sources provided including the computer
- Make most of the planning decisions when planning an investigation
- Show I know why fair tests are needed and know how to vary one factor whilst keeping others the same
- Make predictions about what is going to happen in a test
- Select appropriate equipment from a range
- Use equipment effectively reading standard measures
- Make a series of observations, comparing 5 or more things
- Sometimes take repeated readings
- Present my results clearly using tables and bar charts, take repeat recordings and discuss my ideas
- Plot points to make a line graph and I have noticed how these can show patterns in my data
- Take account of these patterns when drawing conclusions with support
- Start to relate my conclusions to the science that I know
- Use scientific vocabulary with understanding
- Suggest improvements in my work and give reasons for what I say

I AM WORKING AT LEVEL FOUR

My targets and achievements in Scientific Enquiry

I can:

- Talk about cause and effect and some prominent scientists (Jenner)
- Choose information from books, articles, facts and CD ROMs to help me find out answers to my questions
- Make all of the planning decisions when planning investigations
- Make predictions based on scientific knowledge and understanding
- Identify confidently the factors to be controlled or varied in a test
- Compare five or more things
- Select apparatus for a range of tasks and I can use it with care
- Measure with precision, safety and skill
- Repeat measurements and offer simple explanations for differences between measurements.
- Record my results in a systematic way and present data as line graphs
- Draw conclusions which are consistent with the evidence and relate them to my scientific knowledge and understanding
- Use precise scientific vocabulary to explain theories, observations and conclusions
- See and suggest where and how I can improve my work

I AM WORKING AT LEVEL FIVE