

# Year 7 Ways of Doing- Science

## Knowledgeable

## Investigative

## Analytical

Exceeding

- I can recall different theories with ease
- I can explain increasingly detailed scientific explanations using correct scientific theory and terminology
- I can compare and contrast different ideas with ease and occasionally include generalisations from my own reading

- I can confidently follow more detailed methodologies and change them when needed
- I always assess my work for significant safety, ethical or environmental issues that are relevant to the methodology of the investigation
- My raw data is collected independently and in a correct manner

- I can recognise more detailed patterns and trends and can make generalisations as to why they are occurring
- I am increasingly able to represent data with more detailed graphs/charts (including those on a computer)
- I can interpret graphs/charts, with some help, highlighting patterns and dealing with anomalies in the appropriate way

Expected

- I can remember simple theories with ease
- With support I can apply/analyse some scientific explanations using correct scientific theory and vocabulary
- I can explain basic scientific ideas using the correct theory with little or no support
- Sometimes I can identify links between different scientific ideas

- I can follow experimental methodologies accurately adding suggested improvements if needed
- My work space is always free from unnecessary items 'a clean work space is a safe work space'
- My raw data is increasingly recorded independently and in an appropriate manner

- I can recognise basic patterns and trends and apply my scientific knowledge as to why they might be happening
- I can draw accurate, yet basic, graphs/charts
- I can interpret simple graphs/charts highlighting anomalies in the appropriate way

Developing

- I can remember simple scientific theory with some help from the teacher
- I can describe more correct scientific theories
- I require only simple prompts to link different scientific ideas

- I can follow simple experimental methods easily with few mistakes
- I can apply the lab safety rules so that I can maintain a safe working environment with little or no prompting from the teacher
- Data is regularly represented in a correct format, without support

- I can assess the data I have collected and spot patterns and trends given some help
- I can display data in appropriate graphs/charts when given some help
- I can read simple graphs charts and understand anomalies and how to deal with them given some help

Supported

- I can remember simple scientific information when prompted by the teacher
- With support from the teacher, I can explain simple scientific ideas
- With scaffolded worksheets and prompts, I can link different scientific ideas together

- I can follow a simple experimental method with support from the teacher
- With help from the teacher I can work in a clean and safe work space
- With help from the teacher and scaffolded help sheets, I can make a suitable results table

- I am able to understand what the data I have collected is telling me when given help from the teacher
- I am able to display data in an appropriate graph/chart when given help from the teacher
- I can understand what a graph or chart is telling me when given help from the teacher