Monkleigh Ready to Progress

Working Scientifically Skills			
FSU	**KS1**	**LKS2**	**UKS2**
Notice Choose Connect Investigate Try Explore	Identify Select Recall Observe Sequence Categorise/sort Describe Classify Compare & contrast Recognise	Synthesise (create) Explain Demonstrate understanding Suggest Reason Summarise	Reach informed conclusions Apply Evaluate Critique Reach informed judgements Hypothesise Justify Empathise

Definitions	
FSU	**KS1**
Notice: see something and pay attention to it **Choose**: decide on something for a purpose **Connect**: make links between ideas and/or actions **Investigate**: find out about something (with a focus) **Try**: have a go at something that could be new or hard **Explore**: willingness to try out new things	**Recognise:** see something and know that it is similar to something you have seen before. **Compare/contrast:** say how something is the same or different to something else. **Classify:** group things according to their similarities Describe: - recall something in detail or talk about an observation in detail **Categorise/sort:** the action of classifying Sequence - place a set of events into an order. **Observe:** notice something and say how it links to the learning. **Recall:** remember something learnt previously **Select:** choose the information most suitable and relevant. **Identify:** understand something recalled or observed.
LKS2	**UKS2**
Summarise: Write or say a shortened version to give the key facts and events. **Reason**: Thinking about something in a logical way to respond to a question or challenge. **Suggest**: Write or say ideas that could work in response to a question or challenge. **Demonstrate understanding**: share what you know and can explain using words, images or actions. **Explain**: Write or say how or why something happened the way it did **Synthesise**: Create statements or questions using ideas and facts.	**Reach informed conclusions**: sum up the main points about something supported by evidence. **Empathise**: place yourself in another's position. **Justify**: give reasons supported by evidence to show what you consider right or reasonable. **Hypothesise**: use your past knowledge and available facts to try and predict what might happen (make a good educated guess). **Reach informed judgement**: express a personal view about something supported by evidence. **Critique**: consider the validity or trustworthiness of evidence **Evaluating**: weigh up and judge the relative importance of something compared with other ideas and arguments.

	Apply: make use of information in a given situation.

Expectations of our EYFS Scientists

- Explore the natural world around them, making observations and drawing pictures of animals and plants.

• Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class.
• Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter.

Expectations of our Year 1 Scientists

By the end of Year 1, our young scientists are **developing** within KS1 and demonstrating age appropriate scientific knowledge and scientific working by achieving all objectives in the units taught within the rolling plan. They will revisit and consolidate previous end points whilst securing the current year's, showing they are ready to progress.

Expectations of our Year 2 Scientists

By the end of Year 2 our young scientists are **secure** within KS1 skills and demonstrate age appropriate scientific knowledge and scientific working by achieving all objectives in the units taught within the rolling plan.

KS1 Rolling Plan
Year A: Animals including humans, everyday materials, Plants
Year B: Seasonal Changes, Living Things and their Habitats, The Environment

Expectations of our Year 3 Scientists

By the end of Year 3 our young scientists are **developing** within LKS2 and demonstrating age appropriate scientific knowledge and scientific working by achieving all objectives in the units taught within the rolling plan.

Expectations of our Year 4 Scientists

By the end of Year 4 our young scientists are **secure** within LKS2 and demonstrate age appropriate scientific knowledge and scientific working by achieving all objectives in the units taught within the rolling plan.

LKS2
Year A: Animals including humans. Light and sound, plants, rocks
Year B: Electricity, Living things and their habitats, Forces, States of Matter

Expectations of our Year 5 Scientists

By the end of Year 5 our young scientists are **developing** within UKS2 and demonstrating age appropriate scientific knowledge and scientific working by achieving all objectives in the units taught within the rolling plan.

Expectations of our Year 6 Scientists

By the end of Year 6 our young scientists are **secure** within UKS2 and demonstrate age appropriate scientific knowledge and scientific working by achieving all objectives in the units taught within the rolling plan.

UKS2
Year A: Animals including humans, Light, Earth & Space
Year B: Electricity, Living Things and their Habitats, Forces, Evolution & Inheritance