Manor Primary School Knowledge Organiser –KS1 Science



Topic: London's Burning

Strand: Scientists and Inventors

What should I already know?

- That when we wash our hands, they will be clean.
- Some basic needs of humans (food, water)
- Some basic ways to be healthy
- That the weather changes and we can have hot and cold times of the year (link to seasons)
- The names of some common every day materials and their properties.

At the end of the unit. I will be able to:

Phase: KS1

- Name some famous scientists and inventors linked to the KS1 science curriculum and explore how these scientists are diverse.
- Use observations and ideas to suggest and answer questions
- Explain and discuss if doctors are scientists
- Find out about Elizabeth Garrett Anderson and why she is a significant person.
- Describe how and why we should wash our hands
- Investigate how germs spread
- Explain what Louis Pasteur found out about germs.

Towns of Calculists C		
Types of Scientists – Can y	you name any other types of scientists?	

Botanists - study Plants



Paleontologists -study fossils



Hydrologists - study water



Ecologists - study living things & the environment



Zoologists - study animals



Meteorologists - study the weather



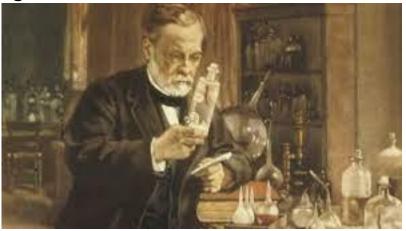
We are MANOR! As Scientists we will		
Manners	Develop a respect and understanding for the natural world, its people, animals and plants. Share ideas, celebrate good work, value others' contributions, or discussions and debates.	
Aspiration	Learn by being challenged in a series of well-designed scientific enquiry and investigation tasks linked to meaningful contexts and develop a knowledge of scientists and careers to broaden our horizons. Be aspirational in developing scientific knowledge and conceptual understanding through biology, chemistry and physics.	
Nurture	To recognise that we live in a wonderful world made up of many different people and living things. We will develop an appreciation and respect for the diverse world and environment in which we live, showing care and compassion for the environment around us.	
Open- Mindedness	We will be open-minded so that we can conduct experiments or observe what is happening in order to see patterns that might emerge or to gain new knowledge. We will use our curiosity and learn to wonder why something behaves a certain way.	
Resilience	Engage confidently with the science curriculum and learn that anything is possible and failure is not something to fear but to learn from. We will	

develop our scientific enquiry and investigation

skills with patience and care, repeating investigations to check the accuracy of results.

Famous Scientists

<u>Louis Pasteur</u> (1822-1895) was a French biologist who discovered a process called pasteurization and worked on vaccinations to stop people getting ill.



<u>Elizabeth Garrett-Anderson</u> (1836-1917) studied Science and became England's first female doctor.



<u>Sir David Attenborough</u> (1926 -) is a British naturalist, ecologist and zoologist who has spent his whole life dedicated to educating others

about our wonderful world and its animals including being a leading figure in the fight against plastic pollution and other environmental issues that are damaging our planet.



Anders Celsius (1701-1744) was a Swedish astronomer who developed the scale in which we measure temperature. We measure how hot

or cold something is in degrees Celsius.





Scientists and Inventors Quiz

Use the Knowledge Organiser to answer these questions.

	Question	Answer
1	What do botanists' study?	
2	Who became Britain's first female doctor?	
3	What do we call a scientist that studies animals?	
4	What measurement do we use to measure the temperature?	
5	Which scientist worked on vaccinations to stop people getting ill?	

Vocabulary An inventor makes or discovers a inventor new way of doing something. They might make something new. Scientists study the world around scientist us, the people and animals in it as well as studying space. They do this by looking and doing experiments. To watch closely observation Tiny living things that can cause germs diseases. How hot or cold something is. In temperature the UK we measure temperature with a thermometer and measure the temperature in degrees Celsius. vaccination A fluid that helps your body to become immune to a disease caused by certain germs To try to find out the facts about investigation/ something by observing, testing experiment and collecting results.