

Wow Starter: Sun Print Experiment

Teacher: JTurney School: Stanbridge Lower

Final Event: Designing a book bag and an item for sun safety.



UNDERSTANDING THE WORLD

Working scientifically LKS2

• sc31 During years 3 and 4, pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme of study content:

- · sc32 asking relevant questions and using different types of scientific enquiries to answer them • sc33 setting up simple practical enquiries, comparative and fair tests
- · sc34 making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers · sc35 gathering, recording, classifying and presenting data in a variety of ways to help in answering questions
- sc36 recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- · sc37 reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions

- sc38 using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions · sc39 identifying differences, similarities or changes related to simple scientific ideas and
- sc40 using straightforward scientific evidence to answer questions or to support their findings.

Light LKS2

· sc50 recognise that they need light in order to see things and that dark is the absence of light · sc51 notice that light is reflected from surfaces · sc52 recognise that light from the sun can be dangerous and that there are ways to protect their

· sc53 recognise that shadows are formed when the light from a light source is blocked by a solid object • sc54 find patterns in the way that the size of shadows change.

Investigate light, reflections and shadows. We will learn about different sources of light, and that we need light to see.

The children will work scientifically and collaboratively to

investigate reflective materials,

in the context of designing a new book bag.

They will work in a hands on way to play a range of mirror games, finding out more about reflective surfaces.

Furthermore, they will learn that the sun's light can be dangerous, and will create an advert for a pair of sunglasses or a sun hat that they have designed. The children will have chance to test which objects

are opaque in an exciting investigation to design the most effective curtains, and will find out how shadows change when the distance

the object and light source changes.

Along the way they will develop their scientific enquiry skills, making observations, predictions and conclusions.





Let There Be Light! - Stage Coverage

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