

What does this mean?

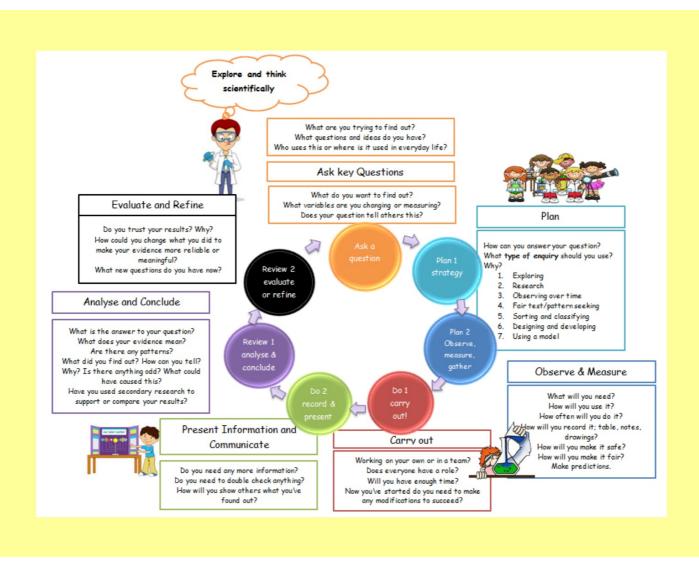
Spring 1st Half Year 3



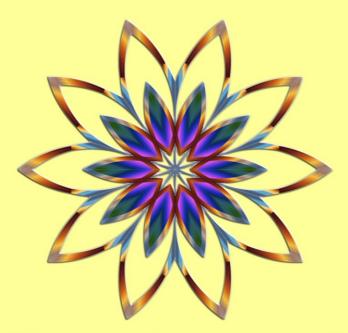
- ask scientific questions and use different types of enquiries to answer them.
- · set up simple practical enquiries, comparative and fair tests
- make careful observations and take accurate measurements using a range of equipment, including thermometers and data loggers
- gather, record, classify and present data in a variety of ways to help answer a question
- record my results using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
- explain my results by using oral and written explanations, displays or presentations of results and conclusions
- use my results to draw simple conclusions, make predictions for new values, suggest how to improve my investigation and ask further questions
- identify differences, similarities or changes related to simple scientific ideas and processes
- · use scientific evidence to answer questions or to support my findings

Lesson 2

LO: To take precise and accurate measurements.



Paper flowers



What is happening? Can you explain why? What could we change, that might affect our results?

Choose one variable to investigate.

Work as a group to write your question.



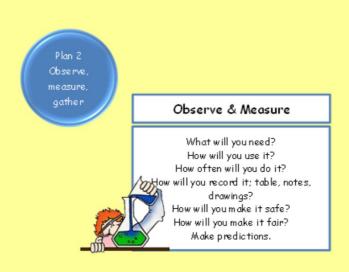
Does -----?



Plan

How can you answer your question? What type of enquiry should you use? Why?

- 1. Exploring
- 2. Research
- 3. Observing over time
 4. Fair test/pattern seeking
 5. Sorting and classifying
- 6. Designing and developing
- 7. Using a model



Make your predictions.



What roles might you need?

Lesson 3

LO: To present data to help answer our question.

Do 2 record & present

Present Information and Communicate

Do you need any more information?
Do you need to double check anything?
How will you show others what you've
found out?

How could you present your results?

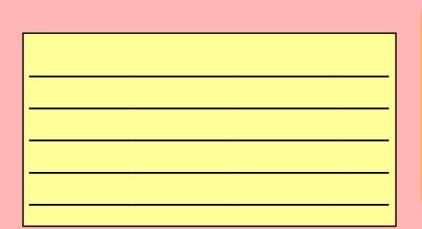
Would you use a bar chart or a line graph?

Analyse and Conclude

What is the answer to your question?
What does your evidence mean?
Are there any patterns?
What did you find out? How can you tell?
Why? Is there anything odd? What could
have caused this?
Have you used secondary research to
support or compare your results?

Review 1 analyse & conclude Can you explain your results using your scientific knowledge?

word bank



Group discussion



Evaluate and Refine

Do you trust your results? Why? How could you change what you did to make your evidence more reliable or meaningful?

What new questions do you have now?

Review 2 evaluate or refine

Lesson 3

LO: To make careful observations.

You're going to be doing some drawing today to identify help you identify the object amoung others!



Plan

How can you answer your question? What type of enquiry should you use? Why?

- 1. Exploring
- 2. Research
- 3. Observing over time
 4. Fair test/pattern seeking
 5. Sorting and classifying
- 6. Designing and developing
- 7. Using a model



Write your name of the back of a paper towel and place your cookie on top.

Your task is to draw your cookie. You have 3 minutes. Place your cookie on it's paper towel in the middle of your table.



Can you identify your cookie?



If you did identify your cookie, what helped you?

If you didn't, what could you do better next time?

Smiley face if you did. Sad face if you didn't.

Retrieve your cookie and have another go in box number 2!

Place your cookie on it's paper towel in the middle of your table.



Can you identify your cookie?

Smiley face if you did.
Sad face if you didn't.

How did you improve?

In your book, write about what is needed in order to make careful and accurate observations.

Lesson 4

LO: To set up simple enquiries.



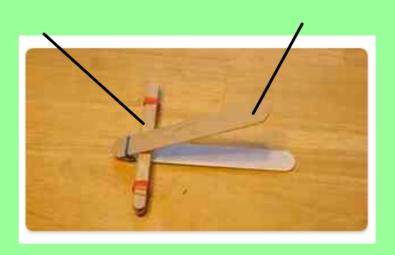
Let's make a catapult!



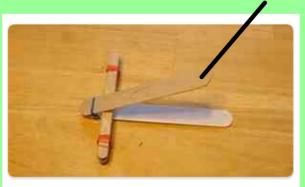
How will we keep it safe and sensible?

Explore

What could we investigate with our catapults today?

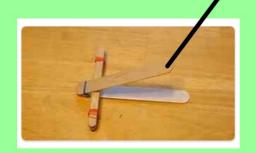


We are going to change





What ammunition could we use?



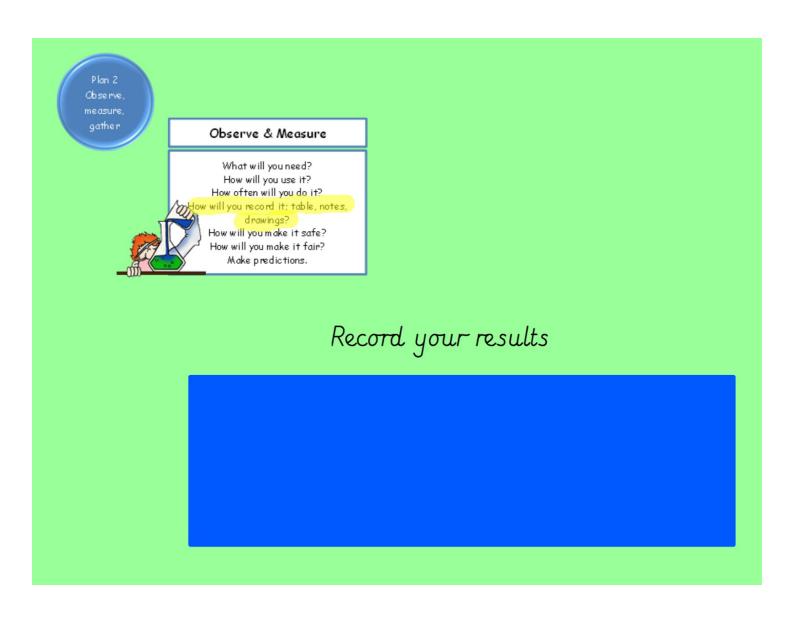
How many times should we try each type of material?

How will we measure the distance?

word bank

I predict that the will go the

furthest because

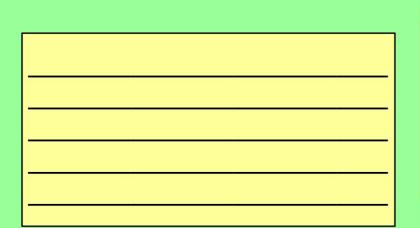


Analyse and Conclude

What is the answer to your question?
What does your evidence mean?
Are there any patterns?
What did you find out? How can you tell?
Why? Is there anything odd? What could
have caused this?
Have you used secondary research to
support or compare your results?

Review 1 analyse & conclude Can you explain your results using your scientific knowledge?

word bank



Lesson 5

LO: To take precise and accurate measurements.

How might we take accurate measurements?

What are the important things to remember when using a stopwatch?



Today, we will be doing a variety of activities and recording how long it takes our partner to do each one.

What activities could we record?

