Fresh Flowers Science Experiment

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Fresh Flowers Experiment

Question: Will warm water allow cut flowers to last longer or is cold water the best way to keep cut flowers longer?

Materials:

- 1. Six Carnations
- 2. Two vases
- 3. Red and blue food coloring
- 4. Camera
- 5. Data Sheet

Procedure:

- 1. Put the two carnations in warm water with blue food coloring to see how fast the plant absorbs the water.
- 2. Put two carnations in cold water with red food coloring to see how fast the plant absorbs the water.
 Is warm or cold water best for cut flowers?

3. Record observations

The Scientific Method

1. Ask a Question/Identify a Problem What do you want to learn? Do you want to solve a problem?

2. Research the Topic
Find out everything you can about your topic or problem.
Read about it. Ask experts.

3. Form a Hypothesis

Make an educated guess about what you think the answer is.

What do you think will solve the problem?

4. Plan and Conduct an Experiment
Design an experiment. Plan a way to test your hypothesis.
Carry out the steps.

5. Collect and Analyze Data

Make observations and record your results. Look at your data to help you find answers.

6. Draw Conclusions
Check to see if your results helped answer your question.
Was your hypothesis correct? Do you need to experiment some more?

7. Communicate Results
After you know the answer or solve the problem, tell others about your discovery.

Experiment

Start with a question or explain a problem.		
Do some research. Can you learn anything about your topic? Write down any facts you find that will help you solve your problem.		
3. Make a hypothesis. How do you think you can solve your problem? What do you think is the answer to your question?		
		

4. Plan an experiment. List the steps that you will take. Explain your procedures. Draw pictures if needed.				
5.	Collect data. Record your observations on the attached data collection sheets.			
6.	Analyze your results. Look closely at your data. What does the data show?			
7.	Draw a conclusion. Was your hypothesis correct? Do you need to do a new experiment?			
8.	Communicate your results. Tell people what you learned.			

Collecting Data

	Red Dye	Blue Dye
Trial 1		
Trial 2		
Trial 3		

Reflection

If you could test again, what would you do?

What is one thing you would change about the experiment?

What is one thing you learned during this experiment?



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