

Name _____
Grade _____

Date _____
Mrs. Lebron

Laboratory Title: **Making Drop Print**

Purpose: _____

Materials

1. Water
2. Red Food coloring
3. Stirring rod
4. Cup
5. Construction paper
6. Metric ruler

Procedure

1. Fill the cup about halfway with water. Add two drops of red food coloring and stir to mix it. Rinse out the dropper with clean water. Then fill it halfway with red water.
2. Place a sheet of white construction paper on the desk. Hold the ruler vertically so the 0-cm end is on the paper.
3. Place the tip of the dropper at the 3-cm mark. Carefully squeeze one drop out of the dropper and let it fall on the paper.
4. Use a pencil to carefully draw around the drop print. **Measure** the width of the mark on the paper. **Record your observation.**
5. Repeat Steps 2-4 four times, holding the dropper at 6 cm, 12cm, and 15cm.

Trial	Dropper Height	Drop Width
1	3 cm	
2	3 cm	
1	6 cm	
2	6 cm	
1	9 cm	
2	9 cm	
1	12 cm	
2	12 cm	
1	15 cm	
2	15 cm	

Draw Conclusion

1. Did you notice a pattern in the width of the drop prints? If so, what was it?

2. Inquiry Skill-Draw conclusion

Use the data to draw a conclusion about the relationship between height and print width,

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Independent Inquiry

Do you think the material on which you dropped the water affected the print width? Test your hypothesis.

Materials

Here are some materials that you might use.

- Red food coloring
- Water
- Stirring rod
- Cup
- Ruler
- Dropper
- Different kinds of materials

1. Do you think the material can affect the print width? Explain.

2. Test several other materials. Record your results.

Height of Dropper	Width of Drop	
	Material 1 _____	Material 2 _____
3 cm		
6 cm		
9 cm		
12 cm		
15 cm		

3. Did the material have any effect on print width? Use the results to justify your answer.
