

# Hot Shapes Activity Sheet

Predict what you think will happen when this mysterious powder and water are mixed together?

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Record the weight of all the individual ingredients. Add all individual weights for a total.

- 1 cup of mystery powder in baggie
- ½ cup water
- bowl for mixing

Weigh mystery powder and baggie \_\_\_\_\_  
 Weigh bowl with ½ cup water \_\_\_\_\_  
 Total \_\_\_\_\_

Make and record observation of what the mysterious powder looks like and take a temperature reading.

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Students Will:	Record Temperature	Observations
Record temperature of powder		
Mix water with mysterious powder in bowl for at least 3 minutes or until mixture becomes thick. Wait about 20 minutes		
Pour mixture in baggie, mold into desired shape tape thermometer on baggie		
Record temperature and write observations every 2 minutes		
2 minutes (4 minutes total)		
2 minutes (6 minutes total)		
2 minutes (8 minutes total)		
2 minutes (10 minutes total)		
2 minutes (12 minutes total)		
2 minutes (14 minutes total)		

Graph the time and temperature on graph paper. (Time on X axis and temperature on Y axis)

Put the “Hot Sculpture” with the bowl back in the scales and weigh. Compare your beginning weight and you ending weight. Did it change or was it about the same? Explain your answer.

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Tell what the temperature did. Relate the temperature to the hardness of the mixture.

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What kind of a change do you have? Physical or Chemical? Explain you reasoning.

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