

Name _____

Making a hurricane

Purpose: to create a model of a hurricane

1. Draw a labeled diagram of the hurricane chamber, label the **vortex, areas of high pressure, areas of low pressure, arrows demonstrating wind movement.**

2. List four things needed to model a hurricane.

- 1.

- 2.

- 3.

- 4.

3. What causes strong winds?

4. Why did we add smoke to the chamber?

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5. Where are there areas of High pressure?

6. Where are there areas of Low pressure?

7. As the air rises into the chimney stack what happens to pressure of the air? Which heat transfer is being demonstrated?

8. Where do most hurricanes form?

9. What would happen to our hurricane if there was no water or heat source? Why?

10. Explain how the hurricane chamber works. Be sure to include the following terms; **hurricane, low pressure, high pressure, convection, wind, water, and heat.**