

Name: Date: 

## Student Exploration: Temperature and Particle Motion

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

**Vocabulary:** absolute zero, Kelvin scale, kinetic energy, Maxwell-Boltzmann distribution, molar mass, molecule, temperature, universal gas constant

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

- Why is hot air hot?
- Why is cold air cold?
- Air consists of tiny particles called **molecules**. How do you think the molecules move in hot and in cold air?

### Gizmo Warm-up

The *Temperature and Particle Motion* Gizmo illustrates how the molecules of gas move at different temperatures. In this Gizmo, temperature is measured on the **Kelvin scale**, which measures temperature from **absolute zero**, the coldest possible temperature ( $-273.15^{\circ}\text{C}$ ). Each unit on the Kelvin scale is equivalent to  $1^{\circ}\text{C}$ :  $273.15\text{ K} = 0^{\circ}\text{C}$ , and  $373.15\text{ K} = 100^{\circ}\text{C}$ .

Check that the selected gas is **Hydrogen** and the **Temperature** is 300 K.



- Describe the motion of the hydrogen molecules:

- Are all of the molecules moving at the same speed?

### Activity A:

#### Molecular motions

#### Get the Gizmo ready:

- Check that the selected gas is **Hydrogen** and the **Temperature** is set to 300 K.



**Question:** How is the temperature of a gas related to the motion of gas molecules?

- Observe:** Move the **Temperature** slider back and forth. Focus on the particle motion at left. What do you notice?

# Student Exploration Temperature And Particle Motion Answer Sheet

**Yan Bai**



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