

Directions: Read the story below and use it to draw and explain a model about energy. You may use all your linguistic resources to do so, and write your response in any language.

Instrucciones: Lea la historia a continuación y úsela para dibujar y explicar un modelo sobre la energía. Puede utilizar todos sus recursos lingüísticos para hacerlo y escribir su respuesta en cualquier idioma.

Culture & Language: Task instructions in English & Spanish, students explicitly invited to translanguage

Imagine you heat a cup of water in the microwave to make a warm drink. You heat the water for about one minute, so it does not steam or boil.

1. What kind of warm drink are you making?

Culture & Language: Contextualized task scenario with recognizable conditions

Culture & Language: Students explicitly invited to share their experiences



Integration of Scaffolds/Clear Criteria: Checklist

2. Draw a model that shows how the molecules in the water are moving **before** and **after** you heat it.

Model Checklist

- Show what is visible
- Show what is happening that you can't see
- Label your drawing

Text

Before	After
	

Multiple Entry Points and Scaffolds: Multiple open-ended components encourages students to create models; graphic organizer

3. In the grey space below, explain what happens when you heat the liquid in the cup.

Explanation Checklist

- Explain how the molecules move **before** and **after** you heat the liquid in the microwave.
- Explain how the motion of the molecules in the liquid relates to the temperature **before** and **after** you heat the liquid.
- Explain how the motion of the molecules relates to kinetic and thermal energy.

Alignment and Rigor:
Grade-level academic vocabulary and cognitively challenging components

Multiple Entry Points:
Open-ended components; encourages students to include written explanation with their models

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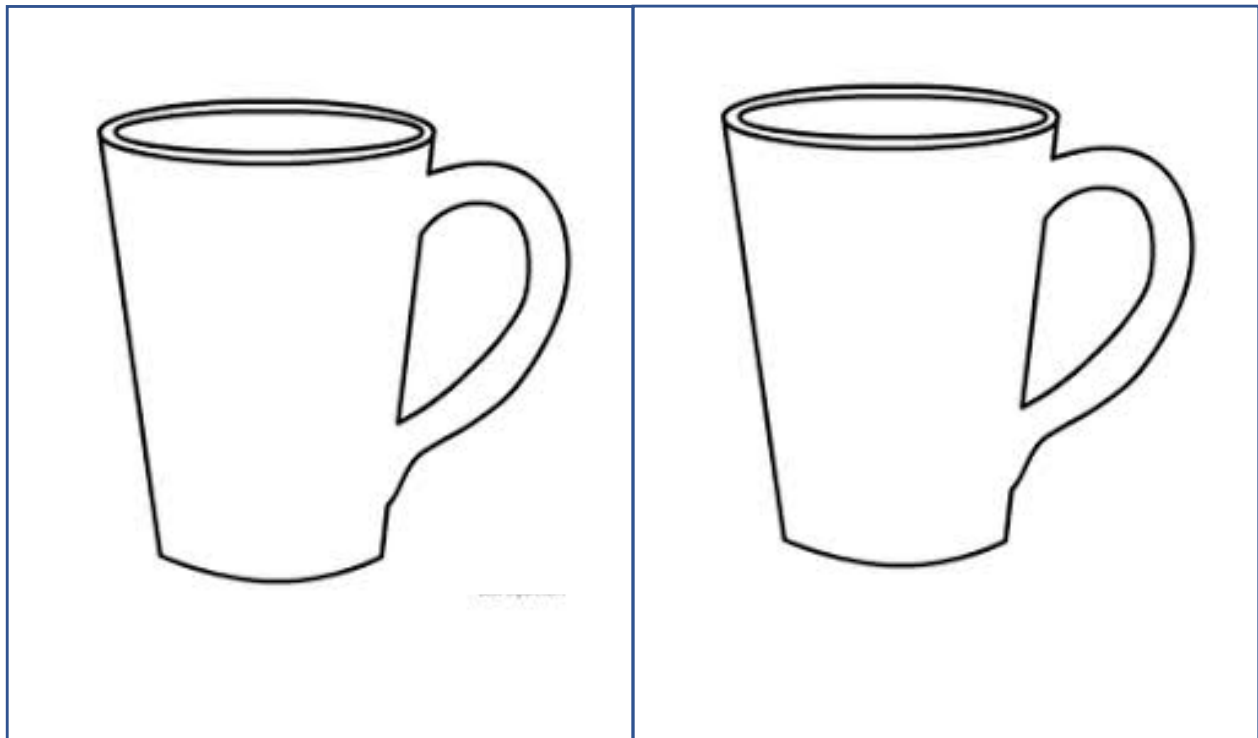
2. Draw a model that shows how the molecules in the water are moving **before** and **after** you heat it.

Model Checklist

- Show what is visible
- Show what is happening that you can't see
- Label your drawing

Before

After



3. In the grey space below, explain what happens when you heat the liquid in the mug.

Explanation Checklist

- Explain how the molecules move **before** and **after** you heat the liquid in the microwave.
- Explain how the motion of the molecules in the liquid relates to the temperature **before** and **after** you heat the liquid.
- Explain how the motion of the molecules relates to kinetic and thermal energy.

