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**Student Activity- Triple Point of Cyclohexane**

**Learning Objective SAP-3.B** Represent the relationship between potential energy and distance between atoms, based on factors that influence the interaction strength..

 **ENE-2.A** Explain the relationship between experimental observations and energy changes associated with a chemical or physical transformation.

**Science Practice** **4.C** Explain the connection between particulate-level and macroscopic properties of a substance using models and representations.

 **4.D** Explain the degree to which a model or representation describes the connection between particulate-level properties and macroscopic properties.

 **1.B** Describe the components of and quantitative information from models and representations that illustrate both particulate-level and macroscopic-level properties.

Observe the demo of Cyclohexane connected to a vacuum pump. Watch the changes as they occur. Write down your observations. Explain what is happening to the cyclohexane and why. Draw a sketch of a triple point diagram to help explain what you have observed.

**Observations**

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**Conclusions**

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**Sketch of Triple Point Phase Change Diagram for Cyclohexane**