

Use a Particle Model With Care: Practice Independently



Use the matching sheet ID when checking answers.

Use the material to work through each task. Show the requested response.

1. Explain why a gas occupies available container space.

Look for:

- Connects movement and spacing.

One possible response: Its widely separated moving particles spread through that space.

2. When a solid melts, must its particles themselves melt into liquid blobs?

Look for:

- Does not confuse particles with the bulk material state.

One possible response: No; their arrangement and motion change in the model.

Open responses use criteria and an illustrative response. Other well-supported responses can be acceptable.