

Competition Corner: Competing Phase Models

g11_u07_w27

Original fictional diagram/table challenges; no material operation or procedure is implied.

Challenge 21. A fictional diagram path starts in a solid region, crosses into liquid at constant pressure, then crosses into gas by increasing temperature. Name each phase change and explain why the path does not establish any real heating rate, equipment choice, or safety claim.

Challenge 22. Fictional cards P and Q are both labeled network solids. P has a higher listed transition temperature than Q, but Q has a higher listed density. Give two model/structure explanations that could coexist with these data, then name one measurement condition needed before comparing the values broadly.