



Sublimation

- Direct transition from solid -> gas
 - Example: Dry ice
- Latent heat of sublimation:
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- Sublimation requires energy makes dry ice an effective coolant

Heat Transfer - Problem Solving Strategies

• Examine situation

- Change in temperature or phase?
- Heat transfer in or out of system?
- Identify what changes temperature or phase
- Identify given quantities and unknowns
- Solve the equation for the quantity to be determined
- Substitute in values to determine numerical answer
- Check to see if the answer is reasonable

Summary

- Heat transfer can result in an increase in temperature or a phase change
- Latent heat tells the energy needed for a change in phase
- Sublimation is the direct change from solid to gas without passing through the liquid phase