



**MathsNET**

A joined up approach to  
teaching and learning  
mathematics

# Introduction to thermodynamic variables

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- List as many thermodynamic variables as you can
- Explain the distinction between extensive thermodynamic variables and intensive thermodynamic variables
- Which of the variables you wrote in answer to the first question are intensive and which are extensive.
- Explain how the word phase is used in thermodynamics. What do we use this word to mean?



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- How do the extensive thermodynamic variables behave in a system at equilibrium?
- What can you state about the values of the intensive thermodynamic variables for two phases that are in contact and at equilibrium?