

# ON CLASS ACTIVITY – THERMAL METHODS – TGA

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- What is TGA, DTA, DSC?
- What is the basic principle of TGA? What is it used for?
- What are the main components in a TGA instrument?
- Which parameters can be modified in a TGA experiment, and how can affect the results?
- Describe a typical TGA experiment
- Which materials are used for TGA pans? why?
- Why the carrying gas is important?
- What's a temperature ramp? and how heating rate affect results?
- What is a thermogram and how is it read? How can it be interpreted ?
- What are the applications go TGA in materials characterization?