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# **MIE 200: Thermodynamics I**

## **Lecture 23: Temperature Scales and Maximum Performance Measures**

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# In this Lecture ...

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- **We will study:**
  - **Temperature scales and Maximum performance measures**

# Temperature Scale

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- **For reversible cycles, Carnot showed**  
**for absolute temperatures**

$$\left( \frac{Q_C}{Q_H} \right)_{\text{rev cycle}} = \frac{T_C}{T_H} \quad \longleftarrow$$

- **Absolute temperature scale is independent of the properties of the substance.**