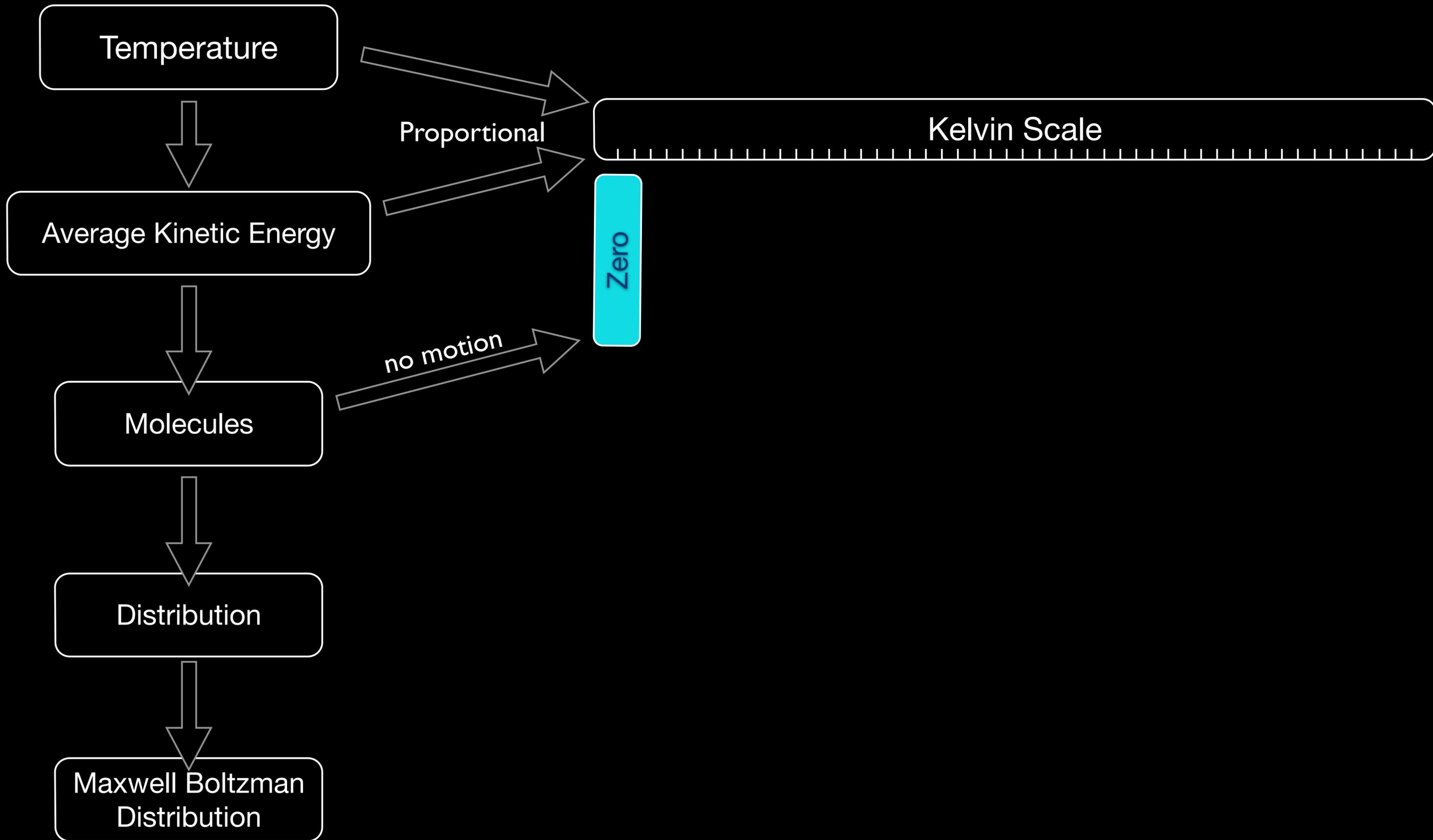


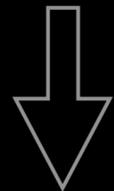
# Temperature



Chemistry Essentials - 046



Temperature



Average Kinetic Energy



Molecules



Distribution



Maxwell Boltzmann  
Distribution

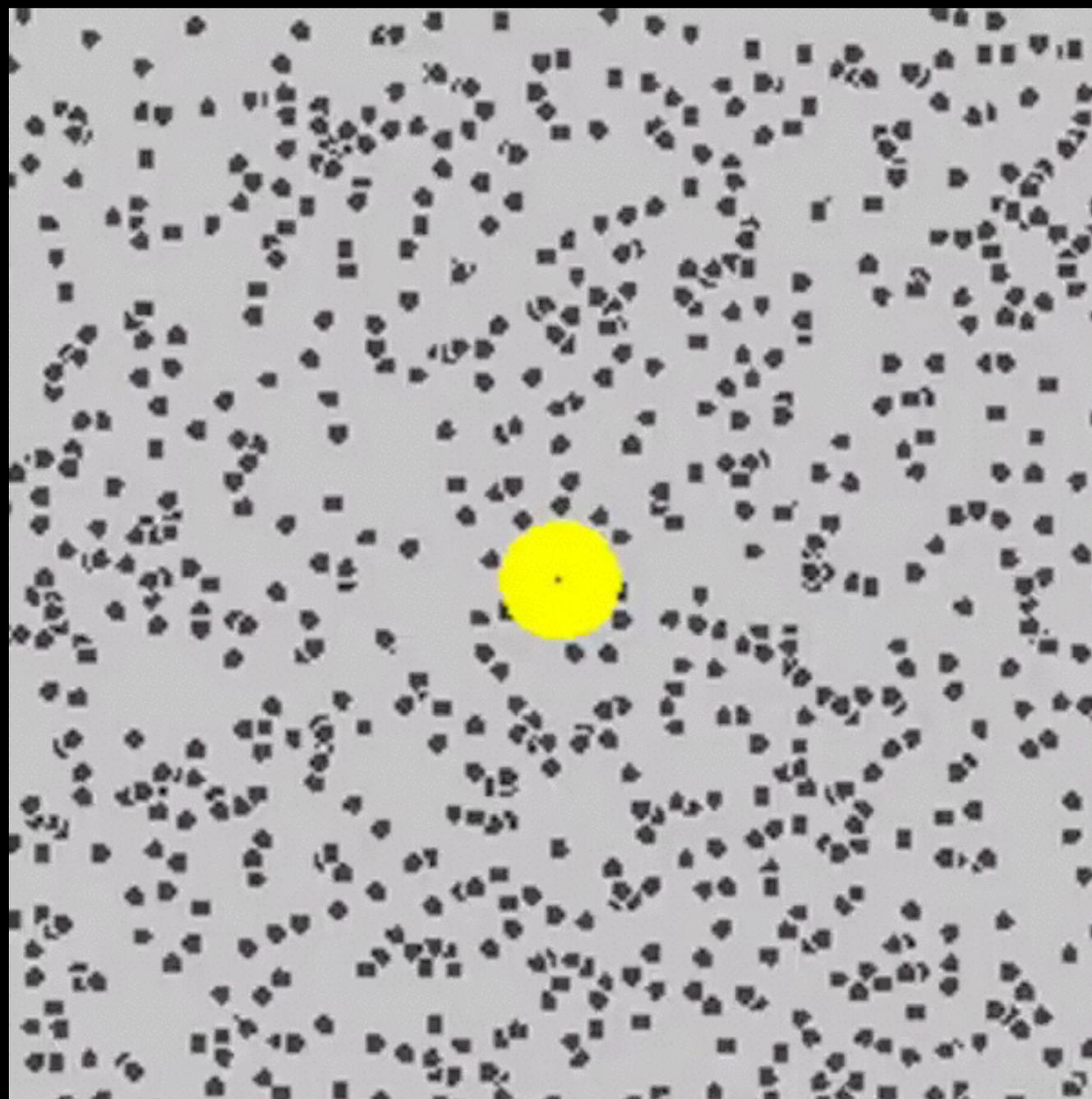
Proportional

no motion

Kelvin Scale

Zero

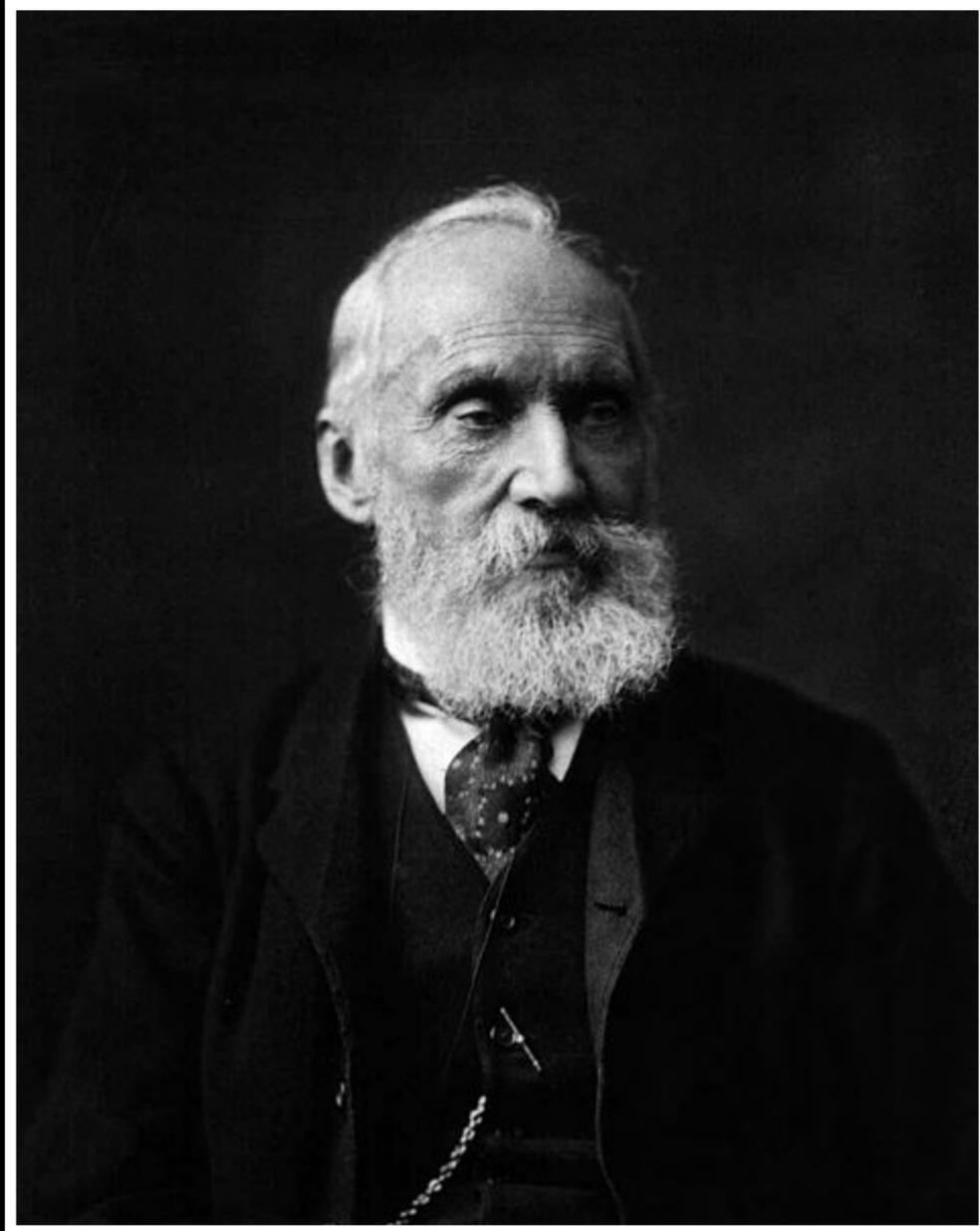
# Molecular Motion



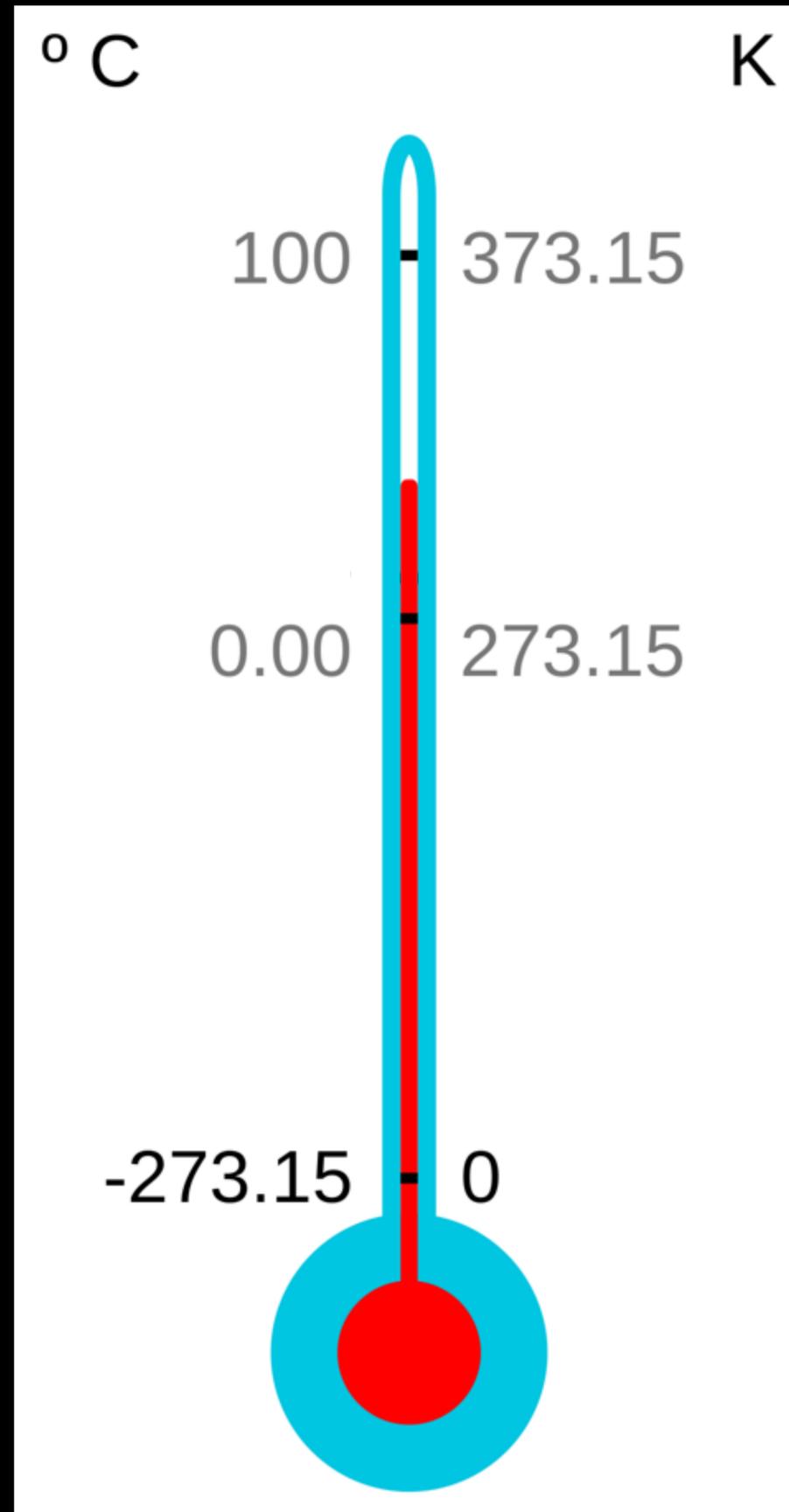
15°C

65°C

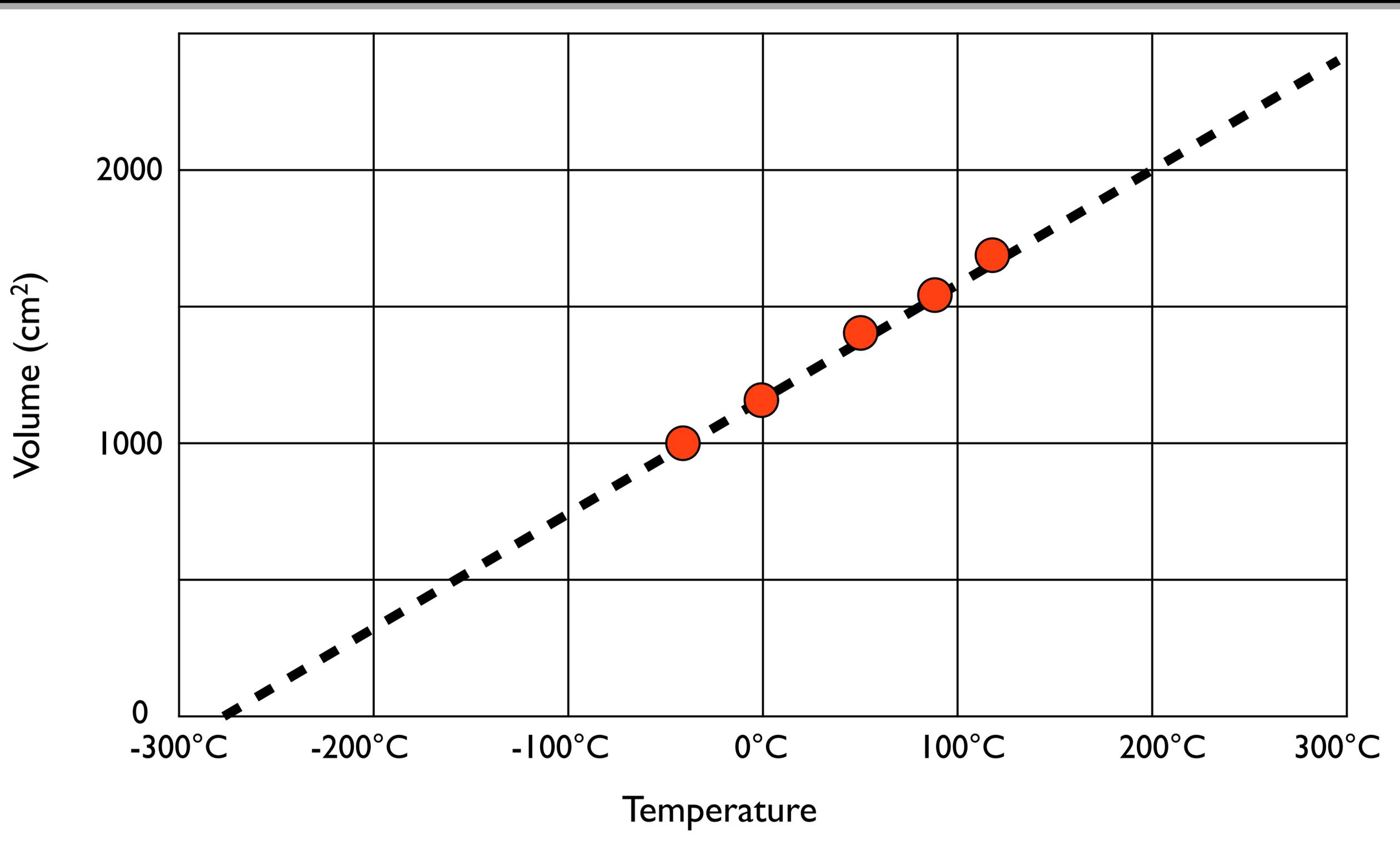
# Kelvin Scale



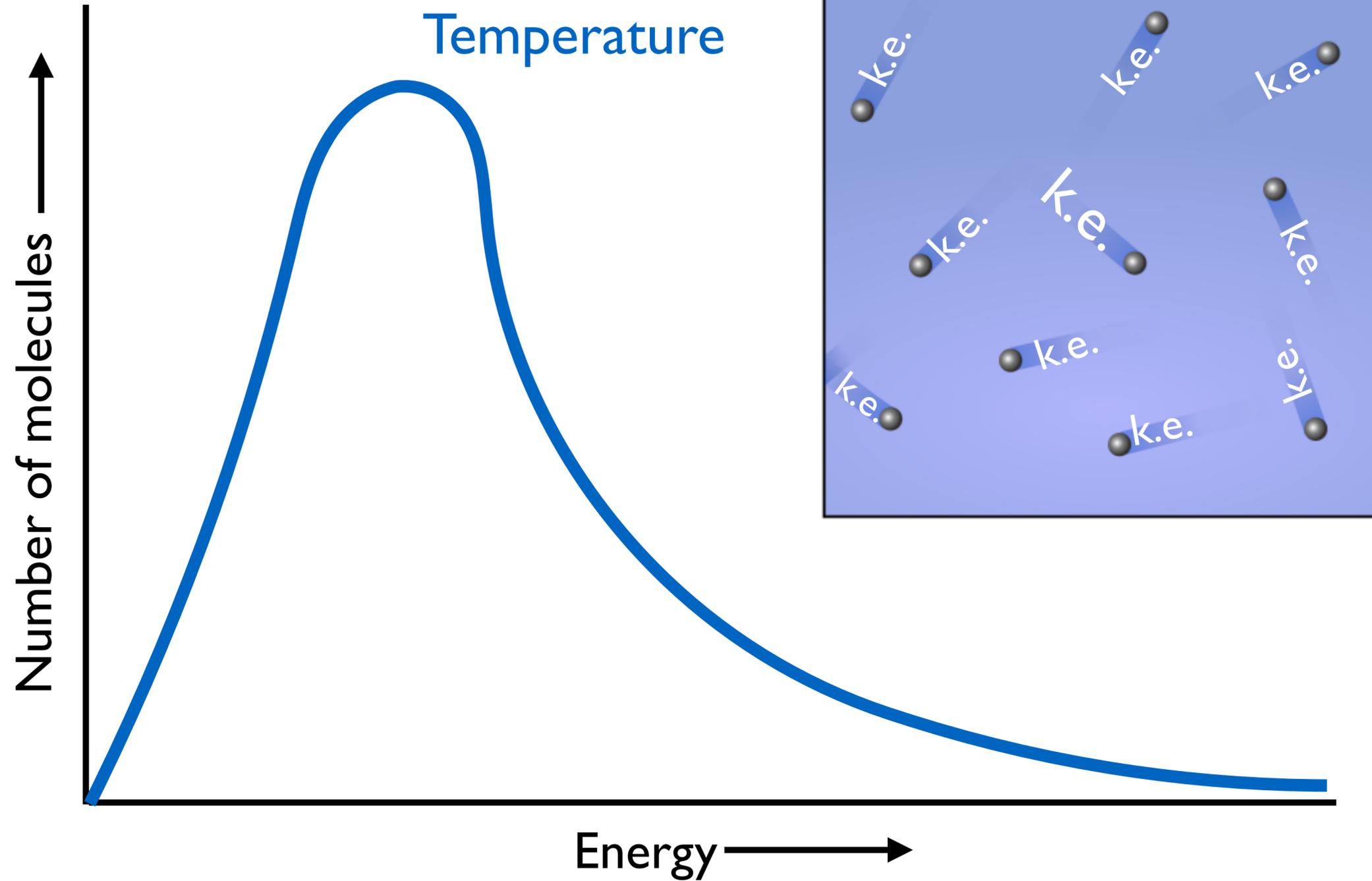
Lord Kelvin



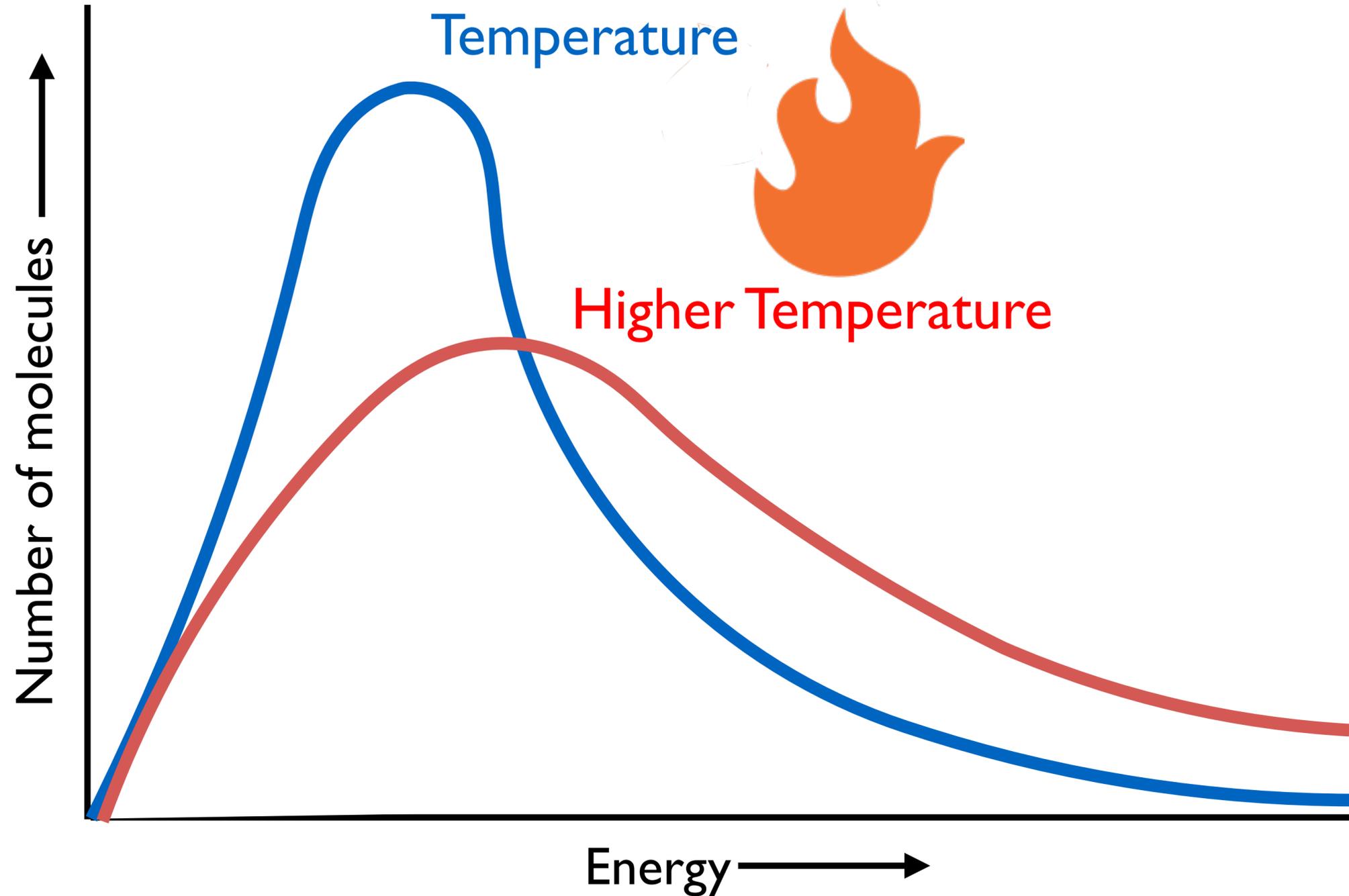
# Absolute Zero



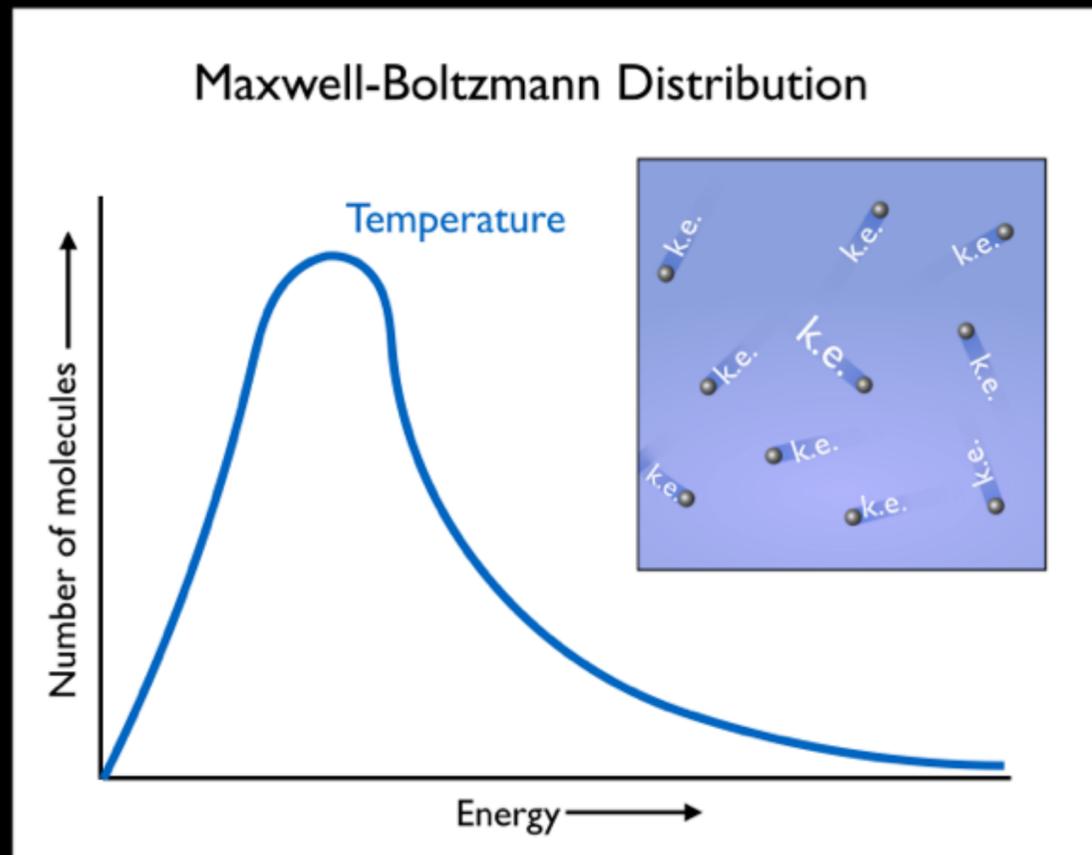
# Maxwell-Boltzmann Distribution



# Maxwell-Boltzmann Distribution



# Did you learn?



To relate the temperature to the motion of particles.

## Acknowledgements

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"File:Lord Kelvin Photograph.jpg," November 10, 2013. [http://en.wikipedia.org/wiki/File:Lord\\_Kelvin\\_photograph.jpg](http://en.wikipedia.org/wiki/File:Lord_Kelvin_photograph.jpg).

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kismalac, Celsius\_kelvin\_estandar\_1954.png: Homo logosderivative work: *English: The Celsius and Kelvin Scales Are Shown in a Thermometer. Temperatures That Are the Base for the Modern Definition of the Celsius Scale Are Shown in Black: Water's Triple Point (0.01 °C, 273.16 K) and Absolut Zero (-273.15 °C, 0 K). Temperatures That Were Previously Used as a Definition for the Magnitude of the Celsius Degree Appear in Gray: The Chilling 0.00 °C, 273.15 K) and Boiling Points of Water (100 °C, 373.15 K). It Can Be Appreciated That Both Scales Have the Same Unit Magnitude. Also, the Original Celsius Scale Is Escencialy the Same as the New One.*, 20:57 (UTC). Celsius\_kelvin\_estandar\_1954.png. <http://commons.wikimedia.org/wiki/File:CelsiusKelvin.svg>.

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