1. Zeroth (0th) Law of Thermodynamics
   1. [History](https://en.wikipedia.org/wiki/Zeroth_law_of_thermodynamics#History)

Of the four existing laws of thermodynamics, this *Zeroth Law* was actually the third to be discovered. In Laughin’s course notes, he states that, “Joseph Black was the founder of this Law. It was he who emphasized that there is a difference between Temperature and Heat content” (Laughlin, 2018). Joseph Black was also referred to as the father of calorimetry and was the first to measure latent heats. However, Wikipedia states differently as, “According to Arnold Sommerfeld, Ralph H. Fowler invented the title 'the zeroth law of thermodynamics' when he was discussing the 1935 text of Saha and Srivastava” (Zeroth Law of Thermodynamics, n.d.). In this article Ralph Fowler presumes that temperature is a physical quantity and that, “If a body A is in temperature equilibrium with two bodies B and C, then B and C themselves will be in temperature equilibrium with each other” (Ralph H. Fowler, 1935). This statement does not use the phrase zeroth law and it was only later when Fowler co-authored a paper with Edward A. Guggenheim did they write the zeroth law to be as follows, **“If two assemblies are each in thermal equilibrium with a third assembly, they are in thermal equilibrium with each other”** (Ralph H. Fowler & Edward A. Guggenheim, n.d.).

* 1. Summary

The zeroth law of

1. Relevant Examples