

The scenario

Subject	Thermal properties of matter / Bimetal
Length	2:24
Main goals	Get to know about different thermal expansion rates of different materials
Detailed goals	To understand that each body made from different material has its own thermal expansion rate.
Structure and description of experiments:	
1. Introduction	As usually, we can make use of different physical phenomena. Now we examine thermal expansion rate of different materials of the same shape, put together.
2. Main subject	Bimetal
Experiments	A bimetal strip consists of two parts: one made of steel and the other – aluminium. When heated, the strip bends towards steel strip. We conclude that aluminium expands more and steel less so the strip bends like so.
3. Summary, evaluation and remarks	This simple device miniaturized can be used, for example, as an on-off mechanism in electric irons. Level: primary school