

## **Investigation 6**

### **Heating Memory Metals**

In the previous investigations we used hot water to change memory metal samples from the martensite to the austenite phase. If we want to use memory metals for practical applications, it is useful to find other ways of heating the memory metal.

1. What might be some other ways to heat the memory to its transition temperature? Brainstorm possibilities and list them below.
  
2. Design an experiment to test one of these possible ways of heating the wire. Describe your procedure below. Draw a diagram to show how you will test this heating method.

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3. What materials will you need?
  
4. Carry out your experiment. Did your original idea work? Did you make any modification to the original design to make it work. Be ready to demonstrate your experiment and share the results with the rest of the class.