

EXPERIMENT 1

PROBLEM

Determine the Transformation Temperature (TTR) for your sample of shape memory metal.

PROCEDURE

Think about the investigations you have worked on in this unit and use what you have learned to devise your own procedure. There are many ways of doing this. You should consider the scientific method as you proceed to help you formulate your thoughts. **Be sure that your procedure has been approved by your instructor before you begin.**

DATA

Dependent upon procedure.

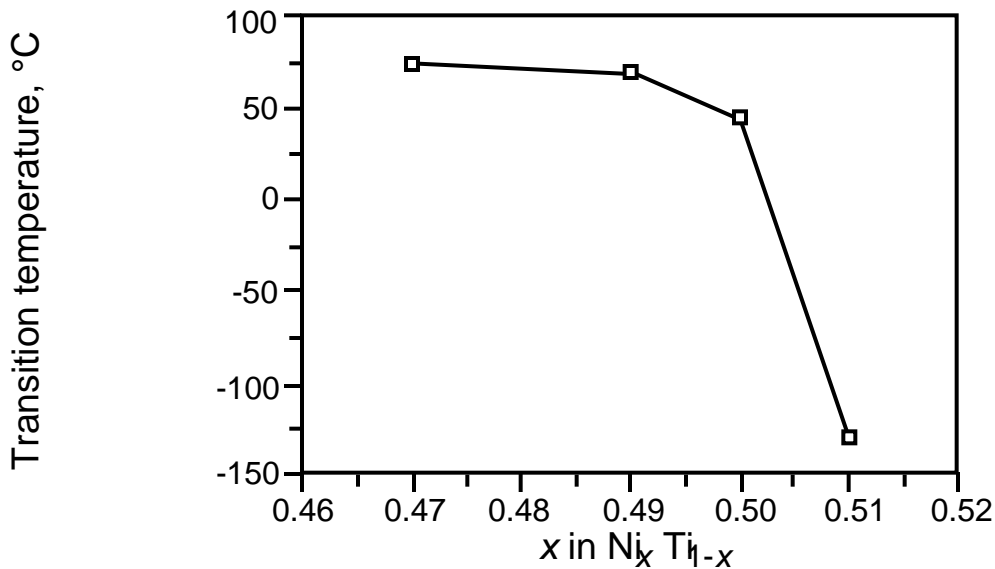
ANALYSIS

CONCLUSION

TTR

EXTENSIONS

Based upon the graph below, estimate the composition of your sample.



Suggest some possible uses of shape memory metals; don't just list those that you know already exist, but also think about some that may not yet exist, but would be really useful if they did.

Do TTR's change if the sample is repeatedly deformed. If so, how? Why?

How quickly does the shape change as a function of temperature?