

Agron / EnSci / Meteor 405/505

Problem Set 8

IR Laboratory

Spring 2011

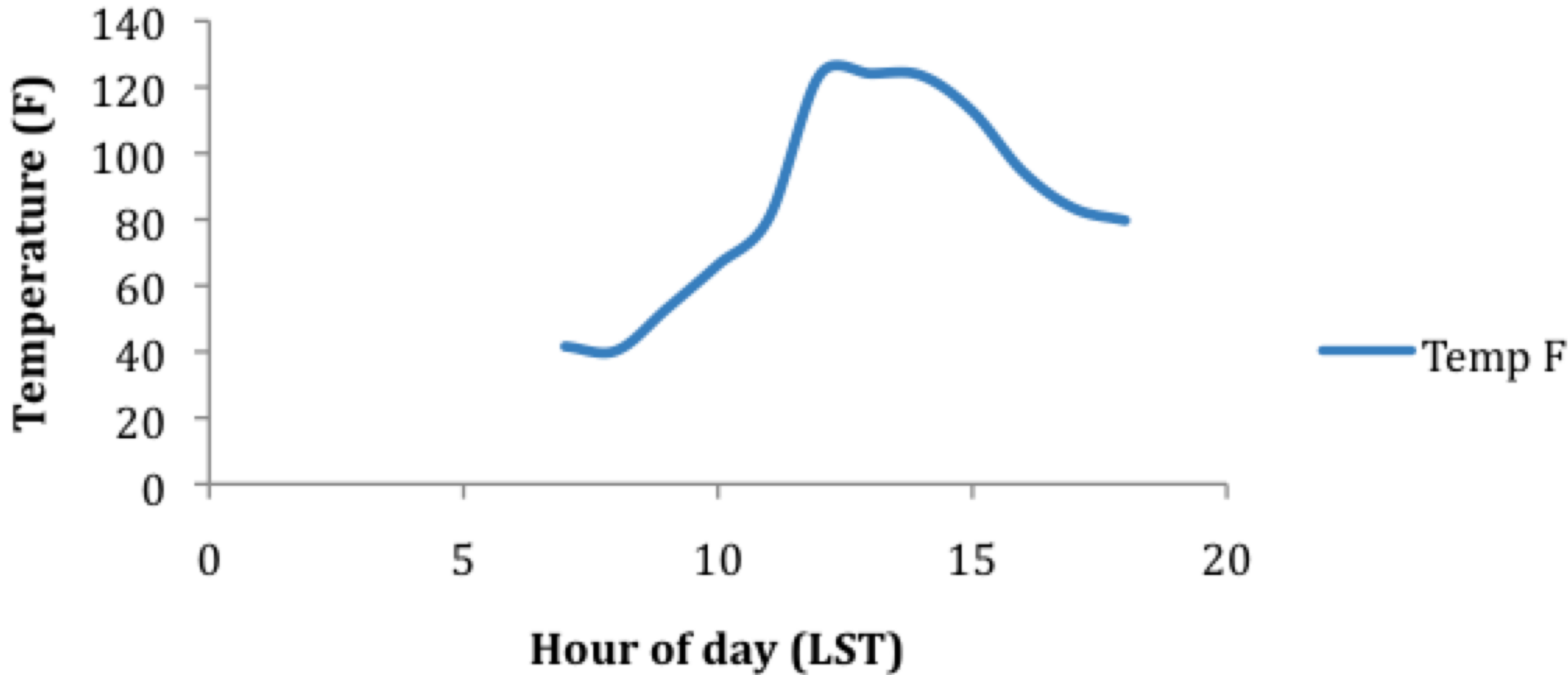
Assignment: over spring break, do a simple experiment with an infrared thermometer.

Report the experiment with a figure of data and a short written description.

In addition, report the temperature of the clear sky and a cloud on the same partly-cloudy day.

Example experiments with an IR thermometer from Agron 206.

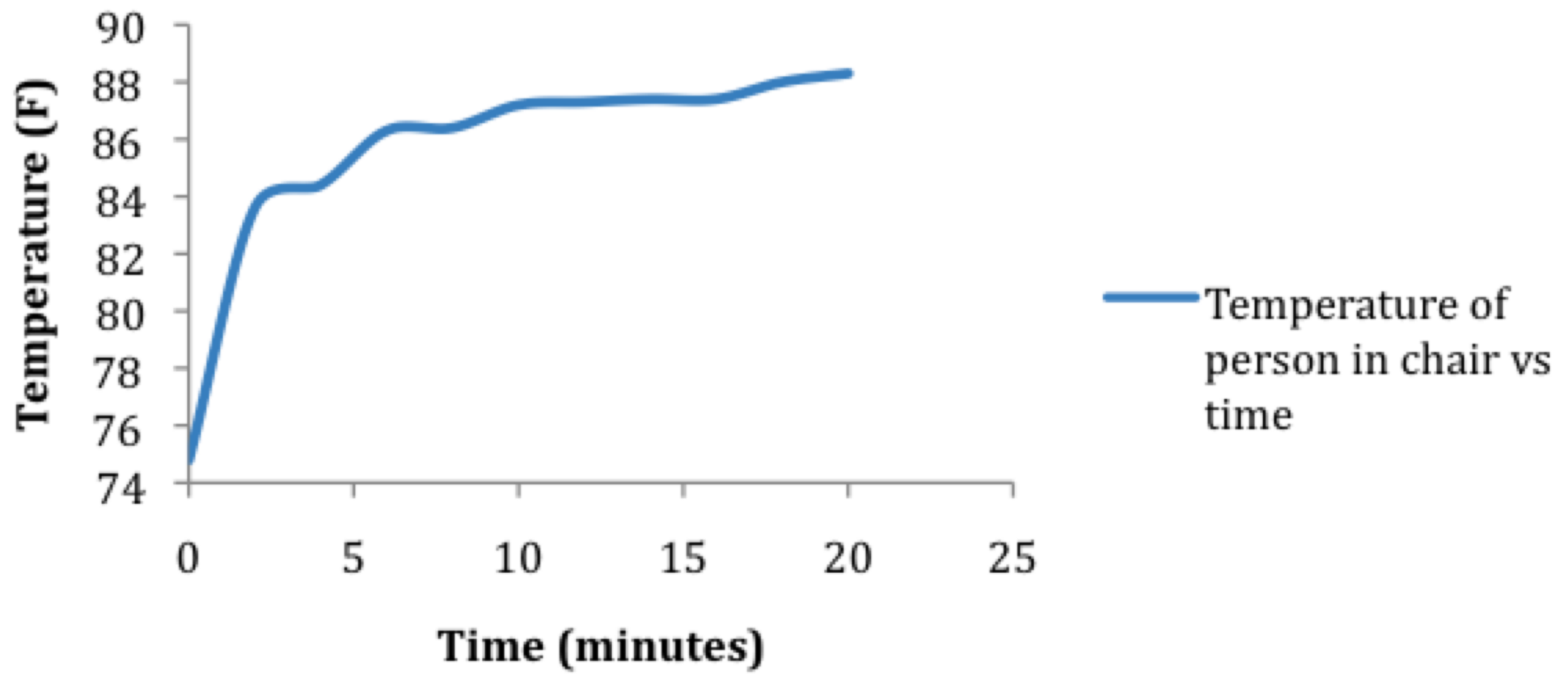
# Temperature of inside a car over a day



Sunny day, high temperature of 74° F.

Example experiments with an IR thermometer from Agron 206.

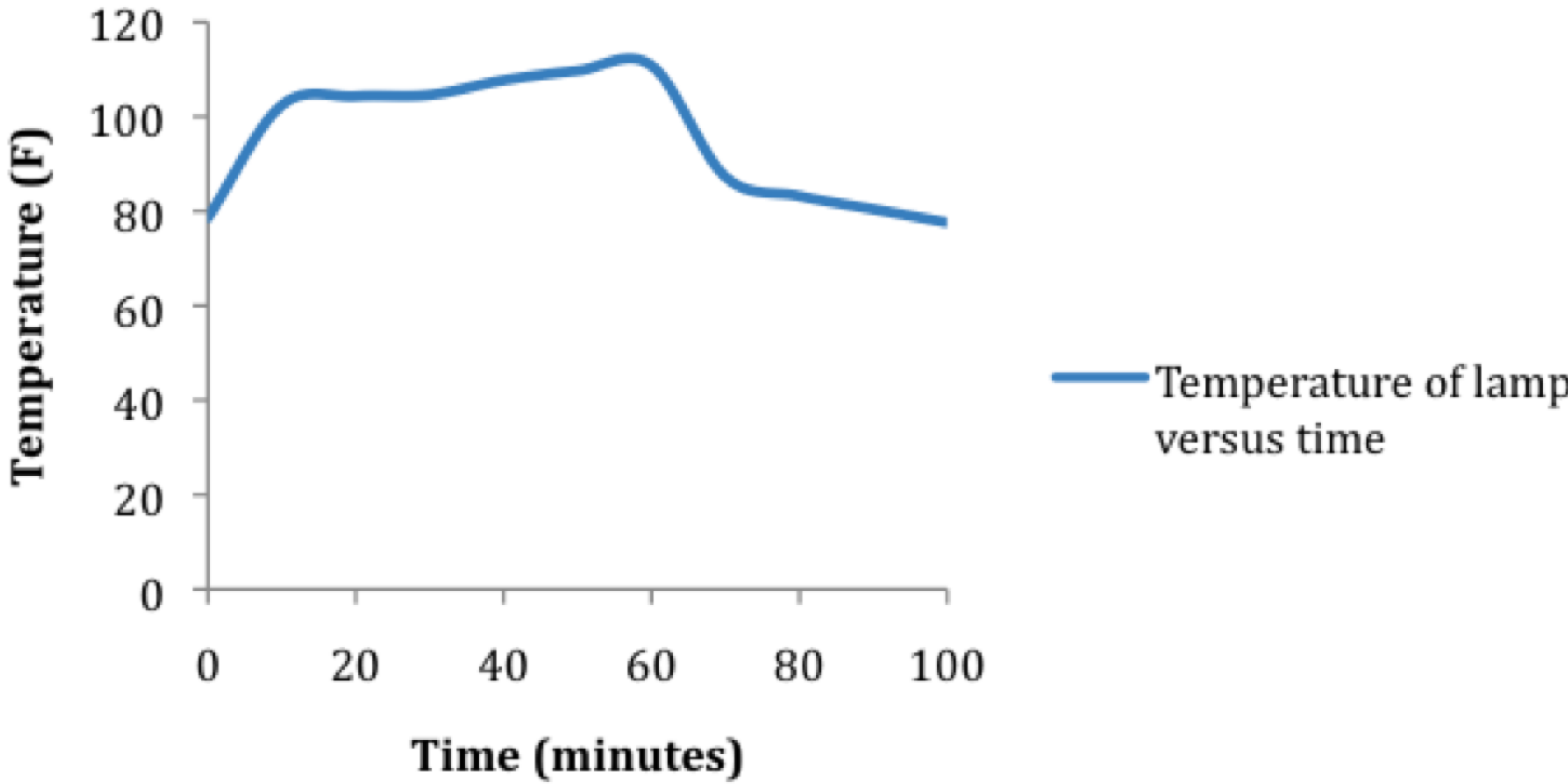
# Temperature of person in chair vs time



Temperature of person = 84.2° F.

Example experiments with an IR thermometer from Agron 206.

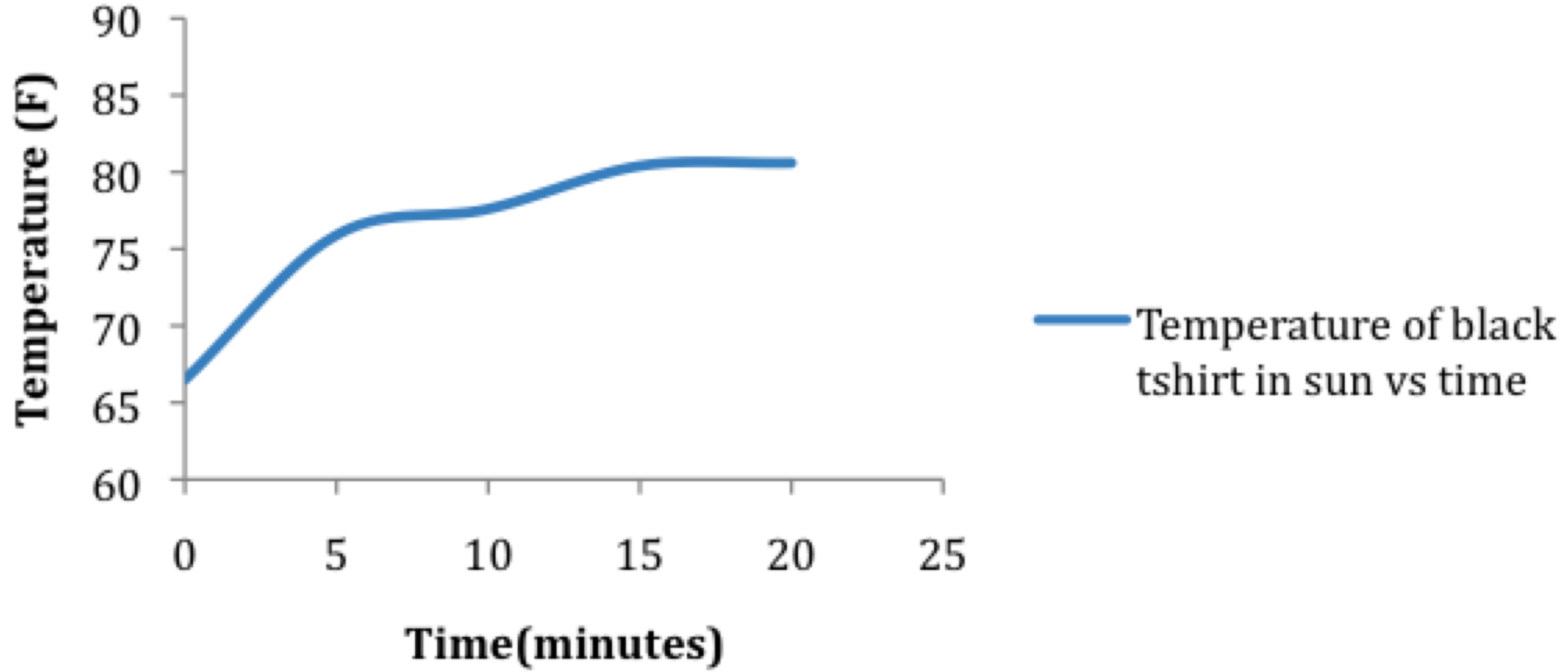
# Temperature of lamp versus time



15 watt light bulb, turned off @ 60 minutes.

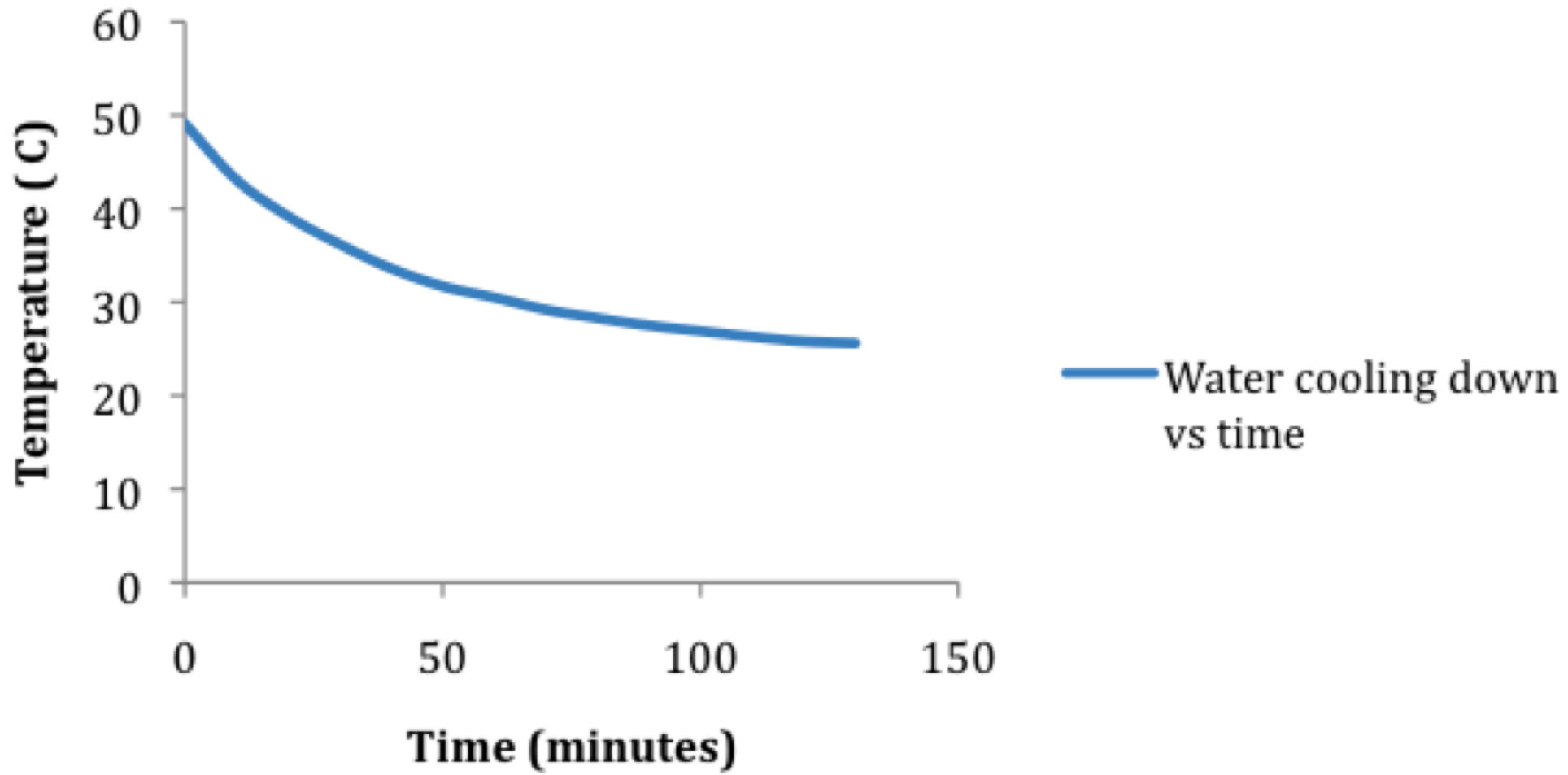
Example experiments with an IR thermometer from Agron 206.

# Temperature of black tshirt in sun vs time



Example experiments with an IR thermometer from Agron 206.

## Water cooling down vs time



Hot water from the tap?

# Clear sky and cloud temperatures.

