**KEEPING THE VACCINES COLD**

Keeping vaccines cold is very, very important. If the vaccine isn’t kept between 35-46 degrees F, the vaccine is considered non-viable and cannot be given to patients. Complete the activities below to see how hard it is to keep the temperature steady for the vaccines.

Activity One: Baseline

a. Put a thermometer in the refrigerator.

b. After five minutes, open the door and record the temperature. This will be our baseline, or the temperature at which things in the refrigerator should be kept.

c. Close the door and .... Do not open the refrigerator!

d. Fifteen minutes later, open the door and record the temperature.

e. Make your observations

Data Box

Initial/Baseline Temperature:
Ending Temperature:

Observations:

Activity Two: Open and Close, Open and Close

a. Over the next fifteen minutes, take turns opening and closing the refrigerator. Open it and look around for a bit. Pretend you are deciding what to have for a snack. Keep opening and closing and opening and closing going for fifteen minutes.

b. At the end of fifteen minutes, record your data and your observations.

c. Leave the door closed for a few minutes to let it return to the baseline temperature before moving on to the third activity.

Data Box

Ending Temperature:

Observations:
Activity Three:

a. Open the door and leave it open for fifteen minutes.
b. At the end of the fifteen minutes, record the temperature shown on the thermometer and make your observations.

Data Box:

Temperature:
Observations:

Summary:

What challenges do you think Aliy Zirkle and Martin Buser will face as they carry this vaccine down the trail to Nome?