Name _____ **Activity Sheet 19, Part A**

Designing a Solar Collector

Starting Time _____		**Ending Time** _____
Starting Temperature (°C)	Final Temperature (°C)	Change in Temperature (°C)

1. Record the starting temperature of the liquid and the starting time.
2. Draw and describe the solar collector that you and your teammate designed. Include details such as the angle or tilt of the tray, the amount of liquid used, and so on.

Name _____ **Activity Sheet 19, Part B**

Designing a Solar Collector

3. After 30 minutes, record the final temperature of the liquid and the ending time. Calculate and record the change in temperature for each tray.

4. How did the efficiency of your collector compare with that of other teams' collectors?

5. Draw and describe the winning design (if another team's). Point out how their design was different from yours and why you think those differences may have made their collector more efficient.