

Name(s) \_\_\_\_\_

**I. Drawing: (Label materials; probably need two views to make it clear.)**

## II. Energy Transformation

A. What type of energy goes into a solar cooker?

B. What type of energy does this change into?

## III. Interactions Between Waves and Matter

A. What materials are **excellent** at reflecting light waves?

B. Explain why one would want some light rays reflected in a solar cooker.

C. What materials are **excellent** at absorbing light waves?

D. Explain why one would want some light rays absorbed in a solar cooker.

### III. Interactions Between Waves and Matter

E. What materials are **excellent** at transmitting light waves?

F. Explain why one would want some light rays absorbed in a solar cooker.

### IV. Analyzing and Interpreting Data

A. Describe the data you collected that allows you to compare this cooker design with your re-design. (i.e. Did you measure its temperature with a thermometer? Did you time how long it took something inside to melt or soften?)