# Part 1

# Bentwood Box Project

You will be making 3 boxes that will hold 3 different sized objects AND be able to nest in each other. Identify the items and their dimensions in the spaces below and then explore dimensions for their containing box.

| Item 1: _____<br>Small Item | Item 2: _____<br>Medium Item | Item 3: **Canoe**<br>Large Item |
|---|---|---|
| Sketch **item** and label dimensions - L & W & H | Sketch **item** and label dimensions - L & W & H | Sketch **canoe** and label dimensions - L & W & H |
| Draw & label a rectangular prism (container) that would fit the object, minimizing wasted space and including proper units of measure. | Draw & label a rectangular prism (container) that would fit the object, minimizing wasted space and including proper units of measure. | Draw & label a rectangular prism (container) that would fit the object, minimizing wasted space and including proper units of measure. |
| Draw and label a net for the containing rectangular prism. **Note: your container will NOT have a lid.** | Draw and label a net for the containing rectangular prism. **Note: your container will NOT have a lid.** | Draw and label a net for the containing rectangular prism. **Note: your container will NOT have a lid.** |
| Calculate the Volume of the container. | Calculate the Volume of the container. | Calculate the Volume of the container. |
| Calculate the Surface Area of the container. Remember there is no lid. | Calculate the Surface Area of the container. Remember there is no lid. | Calculate the Surface Area of the container. Remember there is no lid. |