

## 2.4: Procedure

You will use your spatial abilities, knowledge of volume, and collective reasoning skills to make hypotheses and test those hypotheses.

1. Draw a table in which you can record all the data you will be collecting. You will need the following table headings. **Do not fill in data until you have read the instructions for obtaining that data.**

Table 2.4.1: Data table

Table		Floor		Room	
Hypothesis	Measurement	Hypothesis	Measurement	Hypothesis	Calculation

### Table Length

2. Choose one pen or pencil from your team and place it on the table. Without direct measurement, make a hypothesis for the number of pen lengths your entire lab table is. Record this hypothesis.
3. Measure the table in units of pen lengths. Record this measurement.

### Floor length

4. Without direct measurement, make a hypothesis for the number of pen lengths your lab floor is, in one chosen direction. Record this hypothesis.
5. Measure the floor length, in units of pen lengths. Record this measurement.

### Room Space

6. How many pens do you think it would take to completely fill the classroom? Record this hypothesis.
7. Use your collective knowledge to develop a procedure for determining the number of pens required to fill the classroom. List the steps of your process under your table of data. Include estimates and calculations; label your estimates and calculations to indicate what these estimates and calculations show. Record your calculated number of pens to fill the room in your data table.

### Contributors and Attributions

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