GOAL: Draw a single room to scale.

CLASSWORK DETAILS DAY 1

Teams of three will measure a total of three rooms. Teams of two will measure two.

How do we complete the measurement part of this activity?
- The goal is to measure everything you need to be able to draw the room to scale.
- Create this rough copy on computer paper or on the provided paper.
- This rough copy is not drawn to scale. Make it large to fill your computer paper.
- Record the name of the room you are measuring (ex. KITCHEN 1).
- Use a meter or yard stick to measure.
- Measure the outside of the room first.
- Round all your measurements to the nearest 3 inches.

How do we complete the scale drawing part of this activity?
- Choose who will draw each room from the hall using your rough copy.
- Draw your final copy on graph paper using a ruler. Make your final copy professional.
- Start by drawing the outside of the room.
- See your packet for the symbols to use for items such as toilets, sinks, refrigerators, etc.
- **Include the scale** on your final copy.
- Do not include any measurements on the final copy.
- Include your name.
- Write both the real-life perimeter (feet) and area (square feet) of the room.

HOMEWORK DETAILS DAY 1

- Choose one of the following:
  - Create a scale drawing of either your kitchen OR your master bathroom
  - Create a scale drawing of the outside of Durham Intermediate School
- If you choose DIS, you will need to access Google Earth. You only need to worry about the outside of the building, not inside rooms or features.
- If you choose a room at your house, follow all the same steps we did at school
- Include all items in the room that are permanently placed (sink, dishwasher, toilet, bathtub, range/stove, countertop space, etc.).
- You do not need to include the following items, but you can if you wish: lights, outlets, fans, and wall thickness.
- **Include your scale** as well as the real-life perimeter (feet) and area (square feet) of your room or DIS.
KITCHEN #

8 feet

10 feet
Use the diagram below along with Google Earth to determine the actual length of each wall. Label the length of each wall on the diagram below. Then create a scale drawing on graph paper of Durham Intermediate using the scale $\frac{1}{4}$ inch = 15 foot. Compute the real-life perimeter and estimate the real-life area of the building (based on an approximate rectangle).