

Mapping Activity Worksheet

Maps and Aerial photos (pictures taken from airplanes) are used extensively in conservation planning and management. Print out an aerial photo with a scale and learn to use the scale to calculate distance on the ground. Aerial photos are available using google earth or Peterborough County website.

Task #1: Identify the following features on the map

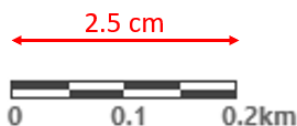
- Main roads
- a store, restaurant or business
- Your school
- Natural areas like trails or parks
- A forested area
- A wetland area
- An impervious surface (road, parking lot etc.)

Task #2: Measuring distance on a map

- Draw a path on the map, perhaps one that you have walked before
- Measure the path on the map with a ruler
- Use the scale to calculate the distance you walked.

Example: Let's say you measured your path to be 10cm long on the aerial photo.

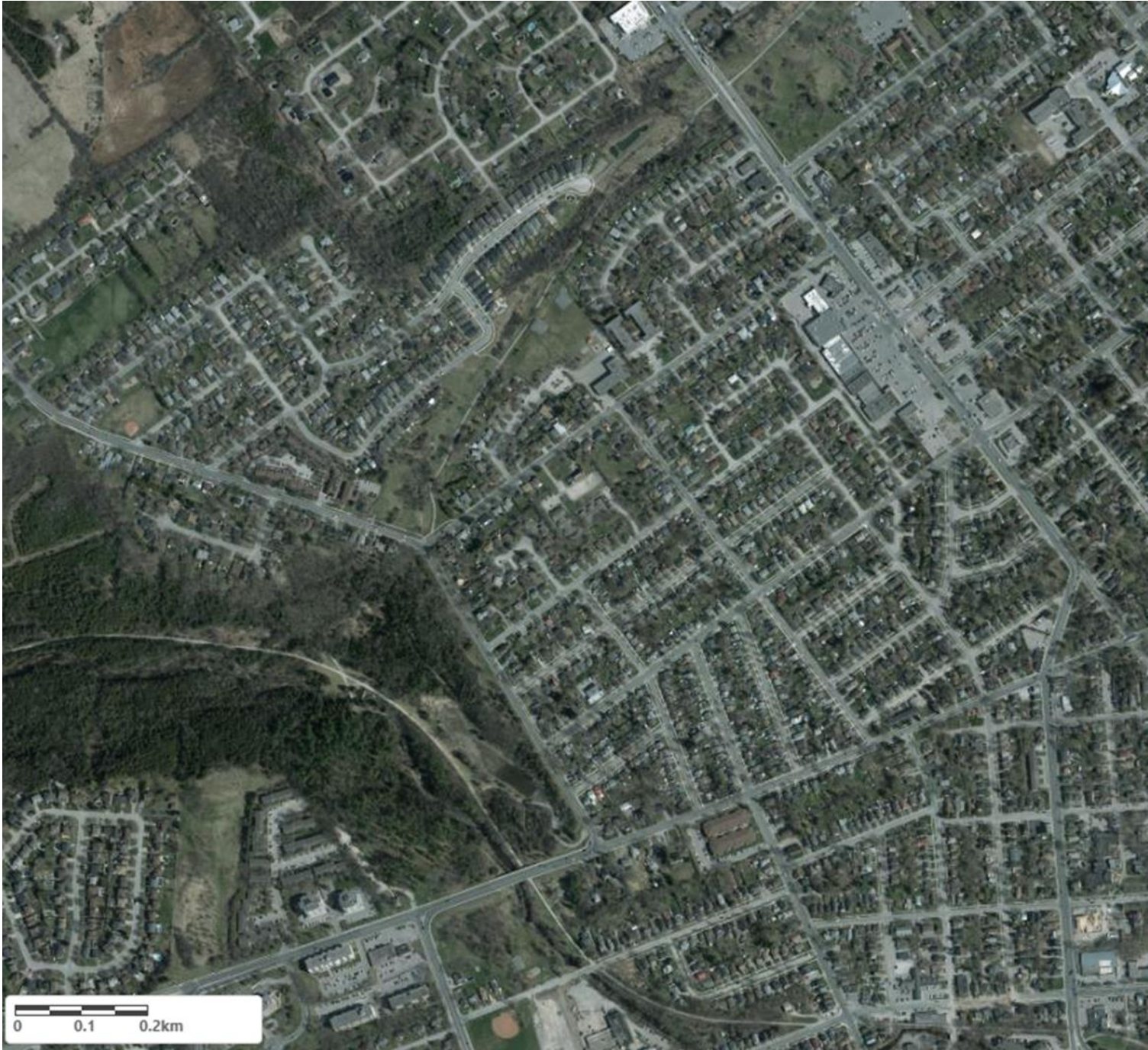
Step 1: Measure the scale provided on the photo (Note: 2.5 cm is just an example)



Step 2: Now we know for every 2.5 cm on the map, it's 0.2km in real life. We now can use ratios to figure out the distance we walked!

$$\frac{2.5 \text{ cm}}{0.2 \text{ km}} \times \frac{10 \text{ cm}}{\text{X km}} = \frac{10 \times 0.2}{2.5} = \frac{2}{2.5} = \boxed{0.8 \text{ km}}$$

This is an example aerial photo and map scale that could be used for the mapping activity. In this example students from St. Anne school (Top right) calculated the distance they walked to Jackson Park.



$$\frac{\text{cm}}{\text{km}} \times \frac{\text{cm}}{\text{km}} = \frac{\text{X}}{\text{km}} = \text{km}$$