

Scale Activity

1 kilometer = 1000 meters

1 meter = 100 centimeters

1. 5000 meters = how many kilometers?
2. 11 kilometers = how many meters?
3. 5000 meters = how many centimeters?
4. What, on your body, is 1 cm wide? (Pick something you can regularly reference.)
5. What, on your body, is 10 cm wide or long or tall? (Pick something you can regularly reference.)
6. What, on your body, is 100 cm or 1 m wide or tall or long? (Pick something you can regularly reference.)
7. If you travelled 1000 meters or 1 km west from the CCSF Science Building, where would you be? (Use Google Maps and note the scale bar in the lower right corner. Click on it to change it to kilometers) https://www.google.com/maps
8. What is the length/distance in kilometers of some key landmarks in the surroundings? <i>(Use Google Maps)</i>
9. How tall is the CCSF Science Building ? Try to reason this out thinking about how many floors it has (5) and how tall one floor is. If off site , google CCSF Science Building and look at the images with students for comparison.
10. What is the radius of planet Earth (in km)?
11. What is the circumference of planet Earth (in km)?
12. What is the deepest hole ever drilled (in km)?
13. What is the average thickness of continental crust (in km)?
14. What is the average thickness of oceanic crust (in km)?
15. What is the depth of the ocean's deepest trench (in km)?
16. What is the elevation of the continent's tallest mountain (in km)?
17. What is the average depth of the oceans (in km)?
18. What is the average elevation of the land (in km)?