1. Watch "Powers of Ten" video: https://www.youtube.com/watch?v=bhofN1xX6u0
2. The world's tallest living tree, a coast redwood named Hyperion, measures about $116 \mathbf{m}$ in height. By how many orders of magnitude bigger (or smaller) is it than the following:
A. an average height 10 -year-old (about 55 inches)?
B. the tallest mountain in the Solar System, Olympus Mons on Mars (about $\underline{15.5}$ miles)?
C. a smartphone (about 15 cm long)?
D. * the Statue of Liberty (look up the size yourself please)?

Hint: review the steps we did in class (Lecture \#5, slides 7-9) and don't forget to convert all measurements to meters before looking for the nearest power of ten!

You might also need a table of metric prefixes provided in Lecture \#3 and imperialmetric equivalencies given in Lecture \#4.

