
NAME:



1. **Imagine you can stack atoms on top of each other one by one, like a tower of blocks. How many atoms will it take to make a tower as tall as a human?**

(In other words, *a human is how many atoms tall?* 😊)

Hint: start with writing the height of a human – you can google the average height or measure your own height – just make sure to use metric units; then recall the size of a single atom (Classwork #5, slide 6); now calculate!

2. **Use the words from the word bank to complete the definitions below. If you are not sure, make an educated guess and we'll discuss it in class next time.**

- A. _____ is the *amount of 3D space* that a substance or shape occupies or contains.
- B. Matter is made of _____.
- C. _____ is the *amount of material* in an object.
- D. _____ is anything that takes up space and has mass.

WORD BANK: matter, volume, atoms, mass