Intro to Bio

Lab safety – list 4 basic lab safety rules

**8 Characteristics of Life**

1. **Cells** – all living things are made of cells.
	1. Unicellular – one cell
	2. Multicellular – more than one cell
2. **Organization** – living things all follow similar patterns
	1. Cells 🡪 Tissues 🡪 Organs 🡪 Organ Systems 🡪 Organism
3. **Energy Use** – All living things need energy to grow and develop
4. **Physical Response** – living things respond to stimuli
	1. Cause 🡪 Effect aka Stimuli 🡪 Response
	2. A complex set of responses is known as a **behavior**
5. **Growth** – all living things grow through division and become more complicated
6. **Reproduction** – all living things create progeny/offspring
	1. Asexual – single parent = clones
	2. Sexual – more than one parent = diversity
7. **Adaptation** – all living things adapt and evolve
	1. For complex creatures, this can take millions of years.
8. **Homeostasis** – all living things maintain balance