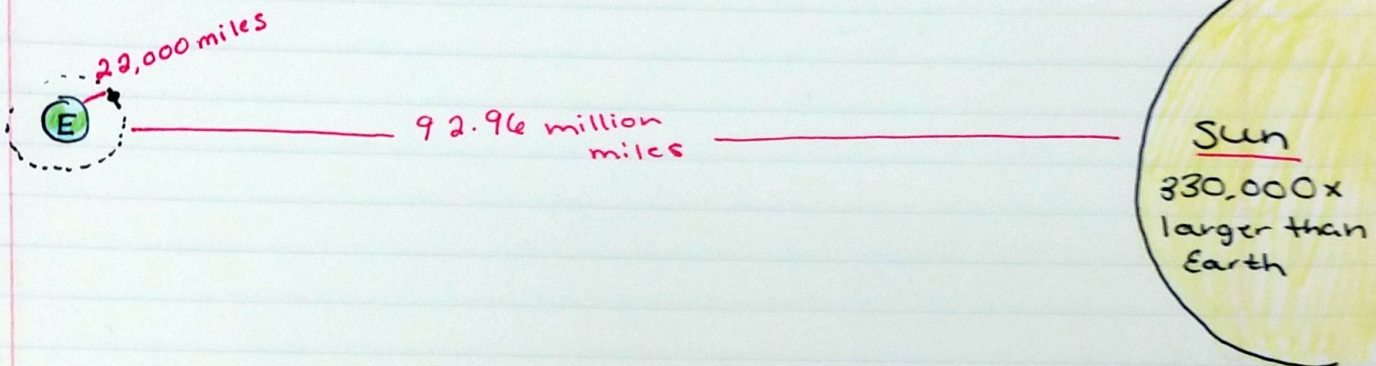


Satellites In Orbit

- Satellites stay in orbit because of their velocity and Earth's gravitational pull on them, are WAY closer to earth than the sun



Mass vs. Weight

Mass = how much matter (stuff) an object is made out of

- Standard unit of mass = Kilogram (kg)

Weight = the force of gravity on an object's mass

$$\text{Force} = \text{mass} \cdot \text{acceleration}$$

$$\text{weight} = \text{mass} \cdot \text{gravitational acceleration}$$

(Earth's is 9.8 m/s^2)

Weight is a FORCE

- Standard unit of force = Newton (N)

Examples:
50 kg = mass
50 N = weight