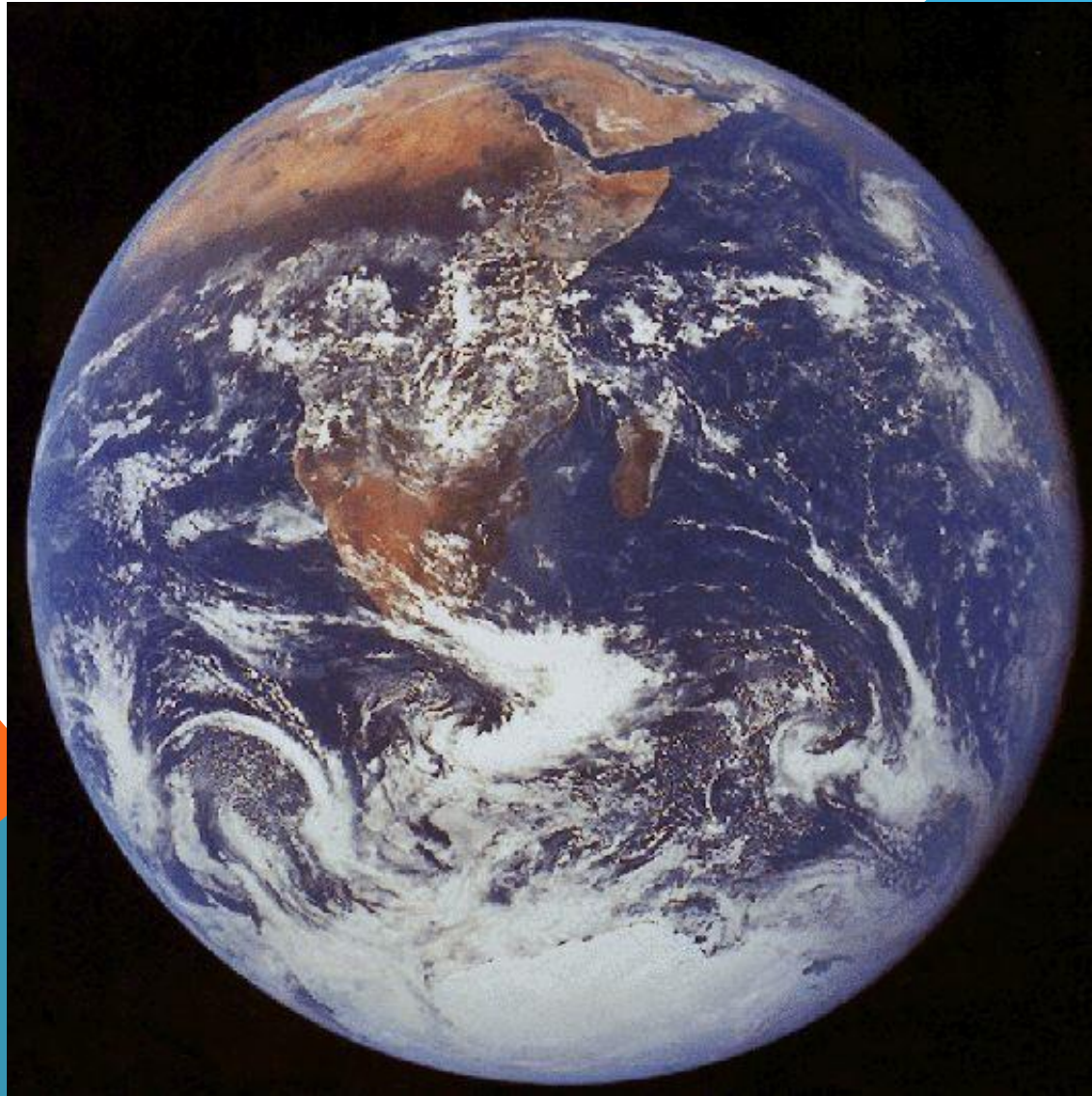
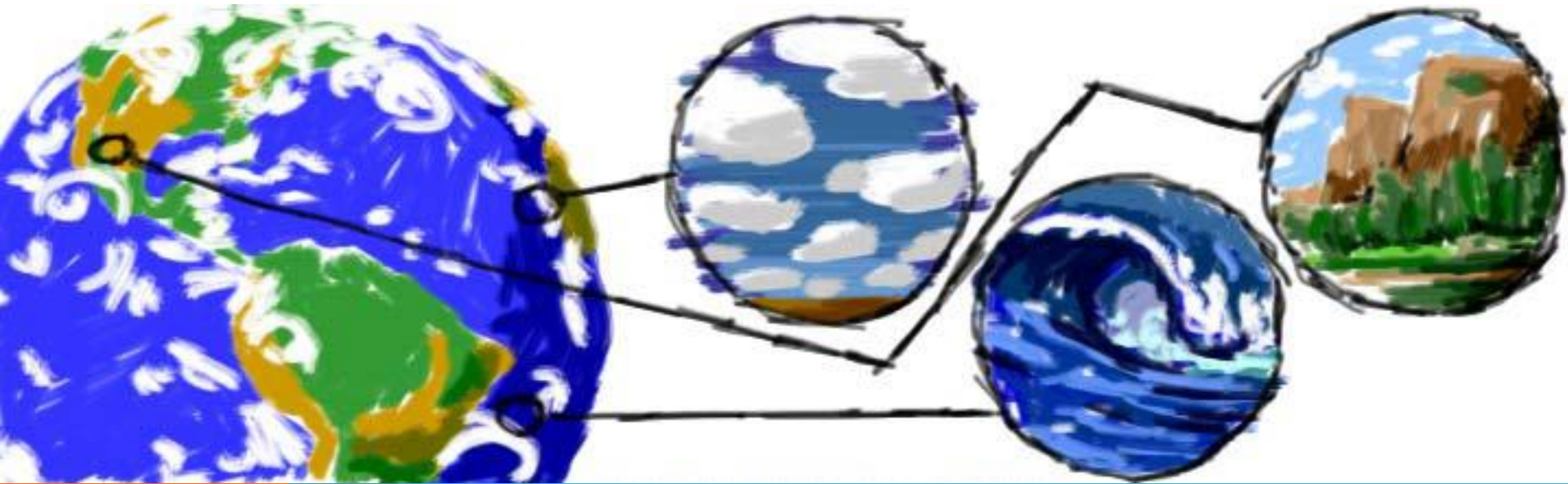


GRAVITY, WEIGHT, AND MASS



MATTER

- Anything that has mass and takes up space.
- NOT energy



MASS

- The amount of matter in a substance
- Measured in Grams on a balance



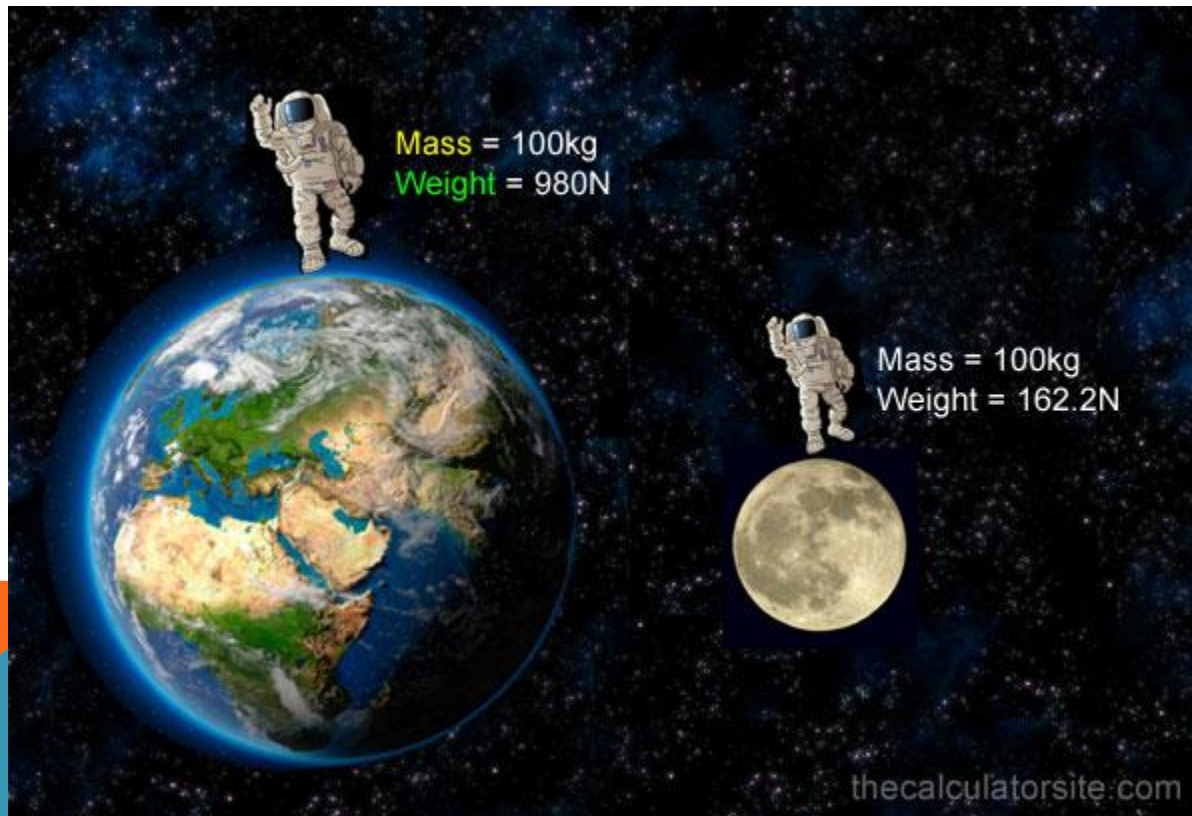
WEIGHT

- A measure of the force of gravity pulling on an object
- Measured in Newtons (N) on a scale



MASS VS. WEIGHT

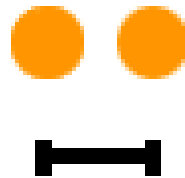
- Mass does not change with different gravity
- Weight changes with different gravity



GRAVITY

- Gravity is the attraction between two masses
- more mass = more gravitational pull
- Closer = more gravitational pull

GREATER FORCES



WEAKER FORCES

