

## GRAVITY:

The observation that things fall to the earth. ☆

### Explanations:

1. Things that have mass pull on each other - the earth has lots of mass.
2. Mass distorts space & time - so it changes motion.
3. "Gravitons" cause gravity (!)

### Implications:

1. This explains why things fall... and why the moon orbits the earth, etc.
2. Every object in the universe is here because of gravity.
3. Gravity can push as well as pull - and this is why the universe is so vast

## Evolution:

Alleles become more or less common in populations over time. (THIS IS EVOLUTION!) ★

## Explanations:

1. Natural selection can cause allele frequencies to change
2. Other mechanisms - mutation, genetic drift...

## Implications:

1. Species can change over time.
2. Given enough time, and the right circumstances, new forms of life can arise through evolution. SPECIATION
3. Evolution explains the diversity of all life on earth, including humans, and the origins of diversity from a single, simple ancestor.