**Components of natural selection**

Variation

* Offspring in any generation will be different from one another in their traits
* Variation has to be heritable
* All members in a species vary due to the combinations of alleles passed on to the offspring

Overproduction

* When birth rate of a species is higher than the available resources needed for all individuals

Competition (struggle for existence)

* Organisms must struggle to get what they need to survive

Survival of the fittest

* Organisms with more favourable characteristics to their surroundings survive and reproduce

Selection

* The alleles for the traits are thus, selected and would increase over time
* Traits that are favourable and enhance chances of survival and reproduction are selected over time in the environment

**Evolution steps**

1. Sexual reproduction
2. Variation
3. Struggle for existence
4. Survival of the fittest
5. Changes to the gene pool