

**B1
revision**

What are the 2 theories of evolution?

1. Lamarck—Law of Use and Disuse, the more you use it the bigger it gets.
2. Darwin—Theory of natural selection.

What is natural selection?

organisms within species may show variation because mutation(s) occur in individuals this results in the individuals with characteristics most suited to the environment being more likely to survive / to breed as a consequence the genes that have enabled these individuals to survive are passed on to the next generation

Name 4 things plants compete for:

Space Nutrients
Light
Water

Describe how changes in the lining shown in the diagram adapt it for its function if an egg is fertilised:

increased thickness or build up for attachment of zygote or so zygote can implant;
allow gives more room for blood vessels

increased blood vessels to provide nutrients for zygote;
allow embryo or fetus or baby or egg for zygote

becomes thicker to form placenta;

increased surface area for attachment of zygote;

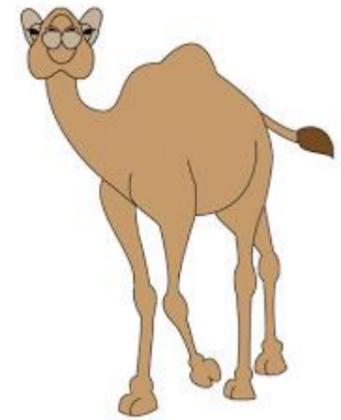
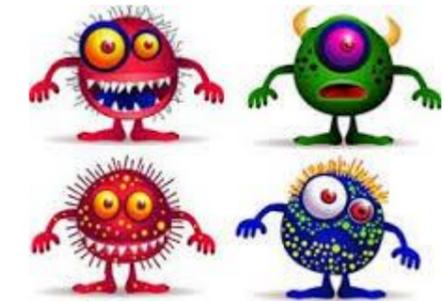
How does a vaccination work?

1. Dead, weakened or inactive pathogen injected into bloodstream.
2. White blood cells create the right antibodies against the pathogen without you getting ill.
3. If the live pathogen enters the body the white blood cells already know which antibody to make and rapidly produced these antibodies to fight the disease.

What are the genetic differences in sexual and asexual produced offspring?

Asexual—all the offspring are genetically identical, therefore all have same strengths and weaknesses.

Sexual—genetic information inherited from both parents and therefore variation occurs. Not guaranteed the same qualities but weaknesses not necessarily passed on. Mixing gene pool provides variation which is better for survival of species.

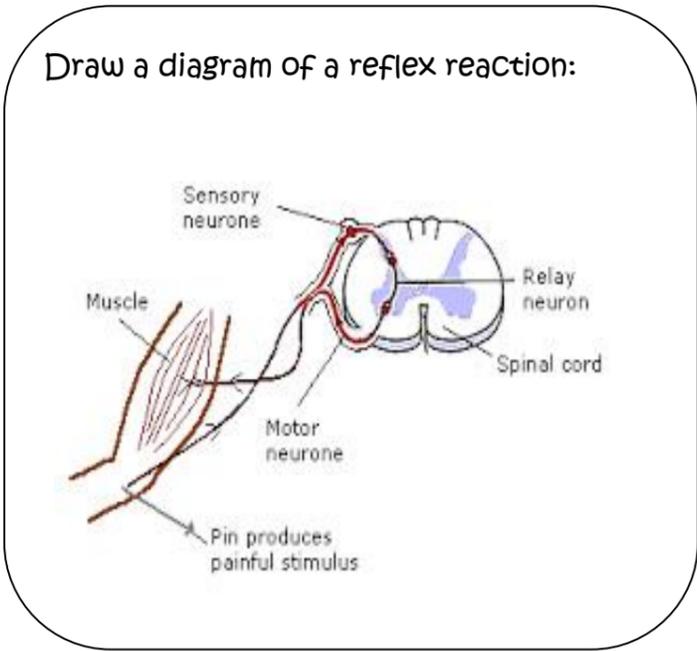
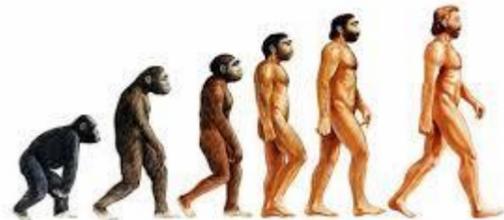


What are the 3 ways our immune system defends the body?

1. Antibodies—attach themselves to the antigens on the pathogen and destroys them
2. Produce antitoxins—neutralise the toxins that pathogens produce
3. Phagocytosis—white blood cells engulf the pathogen and digest them

Name 2 glands that secrete hormones:

Pituitary
Ovaries



What are 2 ways a camel is adapted to its environment?

1. Long eyelashes to prevent sand from going in its eyes.
2. Large surface area to volume ratio which allows heat to escape easily and it can keep cool.