Biology

What is mitosis

Cell division that makes two identical cells

Why does mitosis happen

For growth and repair

How many cells are made in mitosis

Two identical daughter cells

Are the new cells identical or different

Identical

What happens to chromosomes in Mitosis

They copy and then separate

How do animals grow

By cell division called Mitosis

Do animal cells increase in number or size

Both

Does growth stop it certain age

Yes animals stop growing after reaching adulthood

What type of growth do animals show

Whole body growth

why is the cell division controlled carefully in animals
Too much division can cause cancer

What happens if cells grow but do not divide
Cell become too large and cannot work well

Why is plant growth usually fast at the shoot and root tips
These areas have many active stem cells , meristems

Why do roots grow downward
The sense gravity and need to find the water

How does cell elongation help plants grow taller
cells stretch longer making the plant taller

Why are embryonic stem cells more useful than adult stem cells

- Embryonic stem cells are special cells from a very early embryo that can become any type of cell of the body

- They are young cells from an embryo that can change into any cell like skin cells blood cells or Nerve cells
- They can become any type of cell that why embryonic cells are useful than adult stem cells

What is the risk of using stem cells in medicine

They may form tumors or be rejected by the body

Why are stem cells important for scientific research

They help study diseases and test treatment

Why can stem cells divide many times

They are not specialized yet

Why is damage to cerebellum serious for athletes

They loose balance and coordination

Why is the cerebrum bigger in humans than in other animals

Humans need more thinking and memory

Why can't damage to medulla be life threatening

It controls breathing and heart rate

Why is the brain full of folds

To fit more brain cells in small space

Why is spinal cord damage often permanent

Because Nerve cells do not repair easily

How can brain tumors affect thinking

they press on parts of the brain

Why is brain surgery risky

Because Brain tissue is delicate and hard to repair

Why can infections like meningitis be dangerous

This swell in brain and cause damage