

Reproduction Test Review GRADE 9 Science

Cells

- Know what differs in plant and animal cells
 - o What is found only in plant cells?
 - o What is found only in animal cells?
- Parts of the cell
 - o Nucleus, chloroplast, Golgi apparatus, centriole, mitochondria, cell membrane, ribosome, cell wall, vacuole, endoplasmic reticulum, cytoplasm
- Cilia/ Flagellum

Mitosis (Cell division)

- Diagrams and what is happening in each stage (Names of stages) Read notes or page 152-153
- Cytokinesis
- Interphase

Mutations

- a Change in DNA that can be harmful or harmless
- Caused by chemicals, radiations or viruses
- Definition of Cancer, Carcinogens, Benign, Malignant

DNA

- Nitrogen bases, # chromosomes and pairs of chromosomes in humans
- Allen Legere notes from video on Nov. 1 (notes on Nov. 2 class)

Know the advantages and disadvantages of both Asexual Reproduction and sexual reproduction

Asexual Reproduction

- Daughter cells and how they compare to mother cell
- Know the different types of asexual reproduction
 - o Budding, Binary Fission, Fragmentation, Spore Formation
- Definitions Hormones, Auxins, Cytokinins, Growth hormones, Gigantism & Dwarfism , Homologous pairs, spontaneous generations, somatic cells, reproductive cells
- Dolly the sheep (2 facts about this)
- Cloning
 - o Explain “all twins are clones but not all clones are twins” from the “ – Clone Age video
 - o Dolly the sheep (How was she formed)

Sexual Reproduction

- Male vs Female Chromosomes
- 23 Chromosomes inherited from mother and 23 chromosomes inherited from father to give you 46 chromosomes
- External and Internal sexual reproduction
- # of chromosomes in unfertilized egg/sperm, zygote, skin cells

Compare Meiosis to Mitosis

- Know how many cells each produce once finished cell division
- How do the new cell produced compare to the original cells for BOTH meiosis and Mitosis
- Mitosis requires one cell division but Meiosis requires 2 cell divisions
- Diploid and haploid (not just the numbers for humans)