

Reproduction Unit Test Study Guide – June 2014

Study your booklets, worksheets and class notes. The powerpoint presentations from class are on the website.

Key Terms:

Gene	Cell cycle	Neutral Mutation
Gene mutation	Cytokinesis	Diploid
Mutagen	Interphase	Nitrogen Bases (4)
Heredity	Mitosis	Gametes
Chromosome	Meiosis	Zygote
Replication	Haploid	Embryo
DNA	Asexual replication	Sex cell
Nucleus	Positive mutation	Somatic cell
Trait	Negative mutation	Genetics
James Watson	Francis Crick	Gregor Mendel

Some things to know:

1. Describe the nucleus and its importance in heredity
2. Describe DNA (what it is, what it is made of, what is its purpose)
3. Describe chromosomes and genes and how they relate to each other
4. Describe gene mutations and what causes them
5. Know the steps of the cell cycle (and why it may get interrupted)
6. Know the steps of mitosis (and why/where it occurs)
7. Know the steps of meiosis (and why/where it occurs)
8. Compare asexual reproduction vs sexual reproduction (including general characteristics and advantages/disadvantages)
9. Male and Female Reproductive Systems
10. Know the basics for the stages of human development (fertilization plus three trimesters of pregnancy)
11. Know most common visible signs of pregnancy
12. Describe the major steps in our understanding of genetics
13. Provide examples of diseases that result from chromosome mutations