Notebook Organization

**Notes:**

1. Science Skills Unit
2. Cells & Living Things Unit
3. Genetics Unit

* Heredity/Genetics Notes Packet (h/o)
* Pet Project Extension (h/o)
* DNA Notes (h/o)
* Study Guide (h/o)

**Assignments:**

Assignments 1-12 should be placed behind the assignments divider.

Genetics Unit Study Guide

1. What are genes?
2. Who is Gregor Mendel?
3. What are alleles?
4. What is the difference between a dominant and recessive allele? How are these genes represented? Give some examples.
5. What are genotypes? Give some examples.
6. What are phenotypes? Give some examples.
7. Be able to read genotypes and phenotypes. Review examples in packet.
8. What is the difference between heterozygous and homozygous genes? Be able to tell the difference. Give an example for each.
9. Know how genes can be represented for a purebred. Give an example.
10. Know how to fill out a punnett square. Be able to figure out probability from a punnett square. Review the examples from class.
11. Know the parts of a DNA molecule. What are the parts?
12. Know which nitrogen bases connect together.
13. How many bases form a codon?
14. Know the parts of the cell (chromosomes, genes, DNA) and where they are located.
15. A genetic disorder may result from an abnormal change in the structure of the DNA . This is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
16. The codons code for an \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_.
17. When the amino acids come together, they form a\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
18. Know a little bit about the differences between the modern genetics topics discussed in class including cloning, designer babies, GM foods, genetic medicine, and DNA testing.