1. Describe the background of Mendel. Describe Mendel’s experiments.

**Review Packet – 18 Week**

1. What is genotype? What is Phenotype?
2. What does it mean to be homozygous? What does it mean to be heterozygous?
3. Describe what makes a gene dominant.
4. A male has an \_\_\_\_\_\_ chromosome and an \_\_\_\_\_\_ chromosome. A female has two \_\_\_\_\_\_\_ chromosomes.
5. Protein synthesis is made up of two processes. Name those two processes.
6. Describe transcription.
7. Describe translation.
8. Describe the structure of DNA.
9. Adenine pairs with \_\_\_\_\_\_\_\_\_\_\_\_, Guanine pairs with \_\_\_\_\_\_\_\_\_\_\_\_,Thymine pairs with \_\_\_\_\_\_\_\_\_\_\_\_ and Cytosine pairs with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ on DNA. On RNA Uracil is substituted for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
10. Give a strand of DNA that runs 5’-3’. Give its corresponding strand that runs 3’-5’.
11. Gel electrophoresis… what is that?
12. What is reproductive cloning? What is therapeutic cloning?
13. What is evolution? Why does it explain most of biology?
14. What is natural selection?
15. Describe fitness and how it relates to natural selection.
16. What is artificial selection?
17. What are fossils?
18. When were the first first fossils found? What type of organisms were they?
19. What are homologous structures?
20. What is biogeography?