**7th Grade Science Homework Menu Week #4**

Directions: You are to perform the following tasks on separate sheets of paper and submit on Friday, October 10th. Each task is worth a specific amount of points. You NEED TO COMPLETE 20 POINTS worth of Homework to receive full credit.

1. Define the following terms: (**5 Points)**

a. Heredity

b. Genetics

c. Dominant trait

d. recessive trait

e. phenotype

f. genotype

2. For the following alleles, identify whether the letter represents a DOMINANT trait or a RECESSIVE trait. **(5 Points)**

* 1. A:
  2. g:
  3. H:
  4. t:
  5. I:

For the following pairs of letter, identify whether the combination is HOMOZYGOUS or HETEROZYGOUS.

* 1. HH:
  2. Jj:
  3. aa:
  4. BB:
  5. Tt:

3.For the following pairs of alleles identify whether the organism will display the DOMINANT or RECESSIVE trait. **(5 points)**

* 1. HH:
  2. Jj:
  3. aa:
  4. BB:

4. Categorize the following as either GENOTYPES or PHENOTYES **(5 Points)**

* 1. BB:
  2. Blue eyes:
  3. Vv:
  4. TT:

o. Tongue roller:

5. Make a punnet square to see what **percentage** (%) of offspring will be Round (R) Wrinkled (r). **(10 Points)**

a. RR X RR

b. RR X Rr