

## Biology: Hereditary Patterns. Test Quiz

1. Who do we inherit our DNA from?
  - a. Cousins
  - b. Siblings
  - c. Parents
  - d. Uncles and aunts
  - e. No one
2. Most genes within DNA hold instructions for the cell to make a specific
  - a. Carbohydrate
  - b. Chromosome
  - c. Lipid
  - d. Protein
  - e. Starch
3. What is the name for the sequence of a gene that determines a specific trait like brown eyes?
  - a. Allele
  - b. DNA
  - c. Centromere
  - d. Nucleus
  - e. RNA
4. If someone has a brown eye gene and a blue eye gene, they will have brown eyes. What is the brown eye gene called?
  - a. Incumbent
  - b. Relaxed
  - c. Dominant
  - d. Passive
  - e. Recessive
5. If someone has a brown eye gene and a blue eye gene, they will have brown eyes. What is the blue eye gene called?
  - a. Incumbent
  - b. Relaxed
  - c. Dominant
  - d. Passive
  - e. Recessive
6. When writing genes in a Punnett Square, what type of letter is used for the dominant gene?
  - a. Upper case
  - b. Bold
  - c. Italic
  - d. Lower case
  - e. Red
7. If both parents have one dominant gene and one recessive gene, what percentage of children will exhibit the dominant gene?
  - a. 0 percent
  - b. 25 percent
  - c. 50 percent
  - d. 75 percent
  - e. 100 percent

8. If one parent has two dominant genes and the other parent has two recessive genes, what percentage of children will exhibit the dominant gene?
- a. 0 percent
  - b. 25 percent
  - c. 50 percent
  - d. 75 percent
  - e. 100 percent
9. If one parent has two recessive genes and the other parent has one dominant and one recessive genes, what percentage of children will exhibit the dominant gene?
- a. 0 percent
  - b. 25 percent
  - c. 50 percent
  - d. 75 percent
  - e. 100 percent
10. What is it called when two genes are the same (both dominant or both recessive)?
- a. Homozygous
  - b. Heterozygous
  - c. Impossible