Name Block

Date Group

**Essay: Phenotype and Genotype** (p. 492-494)

**(NEW VOCABULARY IS IN BOLD FACED PRINT)**

1. Read the essay from beginning to end-JUST READ IT!
2. Complete the chart below.

|  |  |  |
| --- | --- | --- |
|  | Definition | Examples |
| **Phenotype** |  |  |
| **Genotype** |  |  |

1. Look at Figure E11.1 and read the description. Then read the second paragraph on p. 492. How did the environment in this example affect **phenotype**?
2. Put the following terms in the boxes in order from smallest to largest. Then write the definition under each box. (**gene, chromosome, DNA**)



Label using the terms: **gene, chromosome, DNA**

1. Examine Figure E11.3 and answer the following questions from the description and the essay.
	1. What is an **allele**?
	2. How many **alleles** are generally inherited for each phenotype (trait)?
	3. Why does this number make sense?
	4. Define
		1. **Homozygous**
		2. **Heterozygou**s
	5. Fill in the chart based on the diagram.

|  |
| --- |
| Phenotypes for Human Blood |
| **Alleles** | Blood Type | **Heterozygous** or **Homozygous** |
| (left side) |  |  |
| (right side) |  |  |

1. Complete the chart below

|  |  |  |  |
| --- | --- | --- | --- |
| Phenotype | Definition | Example | **Heterozygous** or **Homozygous** |
| **Dominant** |  |  |  |
| **Recessive** |  |  |  |

1. What is **INDPENDENT ASSORTMENT**?