Name			Date		
Warm-Up: Phenotype/Genotype Worksheet					
Fill in the symbol that describes each type of allele. The letter used is traditionally the first letter of the dominant trait. Both the dominant and recessive alleles for each trait are the same letter. The dominant is capital; the recessive is lower case.					
	Dominant	Cymbol	Dagagiya	Symbol	
Trait	Round	Symbol	Recessive wrinkled	Symbol	
Seed shape Seed color	Yellow				
Pod shape	Smooth		green constricted		
pod color	Green		yellow		
Flower Position	Axial		Terminal		
Plant Height	Tall		Short		
Genotype – the pair of alleles that make up a gene. Types (Homo = same, hetero= different) Homozygous dominant = both alleles are dominant (both capital letters) Homozygous recessive = both alleles are recessive (both lower case letters) Heterozygous = one of each (one capital, one lower case letters)					
Use the above chart to answer the following answers.					
Write the GENOTYPES for each gene.					
1. Homozygous dominant seed shape					
2. Homozygous dominant plant height					
3. Homozygous recessive seed color					
4. Homozygous recessive pod color					

5.

6.

7.

8.

9.

10.

Heterozygous seed shape _____

Heterozygous pod color _____

Heterozygous pod shape _____

Heterozygous plant height _____

Homozygous dominant pod shape _____

Homozygous recessive pod color _____



Phenotype – the resulting characteristic of the organism

When alleles are either dominant or recessive – only the dominant trait is expressed (shows up).

If the genotype is **RR** the phenotype is round (both alleles are dominant)

If the genotype is **Rr**, the phenotype is round (one is dominant, one is recessive so the dominant shows up)

If the genotype is **rr**, the phenotype is wrinkled. (both are recessive so the recessive shows up)

Write the **PHENOTYPES** of the previous genotypes.

8.

9.

10.

1.	Homozygous dominant seed shape
2.	Homozygous dominant plant height
3.	Homozygous recessive seed color
4.	Homozygous recessive pod color
5.	Heterozygous seed shape
6.	Heterozygous pod color
7.	Homozygous dominant pod shape

Heterozygous pod shape _____

Heterozygous plant height _____

Homozygous recessive pod color _____

Seven Different Traits 7. Pod color - yellow or green Seed Seed Flower Flower Stem Pod Pod position length color color shapes shapes color purple axial short round yellow inflated 0 姚 white terminal tall wrinkled green constricted green المنك