Name _____

Alleles, Genotype and Phenotype Practice

Vocab Review

- **Allele-** Different form of a gene that controls a trait (blue vs. brown eyes)
- **Genotype-** Combination of alleles an organism has (letter combination)
- **Phenotype-** Visible trait an organism has controlled by its genotype (how an organism LOOKS)
- **Homozygous dominant-** Having two **dominant** alleles (AA)
- **Heterozygous-** Having two different alleles - 1 dominant and 1 recessive (Aa)
- **Homozygous recessive** - having two **recessive** alleles (aa)

2. For each **genotype**, indicate whether it is heterozygous. homozygous dominant or homozygous recessive

AA _____ Bb _____ Cc _____ Dd _____	Ee _____ ff _____ GG _____ HH _____
Ii _____ Jj _____ kk _____ Ll _____	Mm _____ nn _____ OO _____ Pp _____

2. For each of the **genotypes** below, determine the phenotype.

Purple flowers are (P) dominant to white flowers (p) PP _____ Pp _____ pp _____	*Brown eyes are (B) dominant to blue eyes (b)* BB _____ Bb _____ bb _____
Round seeds are (R) dominant to wrinkled (r) RR _____ Rr _____ rr _____	*Bobtails are (t) recessive (long tails dominant (T))* TT _____ Tt _____ tt _____

3. For each **phenotype**, list the genotypes. (Remember to use the letter of the dominant trait)

Straight hair is dominant (S) to curly (s)				*Pointed heads (H) are dominant to round heads (h)*			
Ss	SS	ss	straight	HH	Hh	hh	pointed
Ss	SS	ss	curly	HH	Hh	hh	round

LIVEWORKSHEETS