

- ① Characteristic that parents pass on to their offspring. A gene.  
ex: Eye color, hair color
- ② Gene = trait      Ex: eye color  
Allele = variation → green eyes, blue eyes
- ③ Genetic composition ex: Aa, AA, aa  
Characteristic that you see ex: Brown hair  
- looks, acts, etc.

④ Dominant shows over recessive  
Unless homozygous recessive  
(aa)

⑤ A a

AA - homozygous dominant

Aa - Heterozygous

aa - Homozygous recessive

⑥

1. Identify trait, assign a letter  
ex: Hair color

H → Brown

h → purple

2. Identify possible

Parent genotypes

HH, hh, Hh

3. Choosing parental genotypes

4. Draw your punnett

	H	H
H	HH	Hh
h	Hh	hh

5. Determine possible phenotypes

⑦ find the probabilities/possibilities offspring

⑧ NO, percentages = probabilities

⑨  $\emptyset$

⑩ Monk who studied pea plants  
father of modern genetics  
Discovered rules of heredity