

Chapter 7 - Genes & Inheritance

~~question~~ → Family resemblance: how traits are inherited

- 2 copies: 1 from each parent

- random selection of genes

- Fish odor syndrome

- bad copy of FMO3 = smell of rotten fish on humans

- takes 2 copies

- offspring will look like parents b/c that's where the genes come from

- Selective Breeding - manipulation of breeding to change size, shape, & color.

- ex. reduced size horses & dogs

- traits that are determined by the instructions a person carries on one gene - widow's peak, cleft chin, tongue roll

- multiple genes create diff traits as well

~~figure 7.7~~ → Mendel - teacher in math

- ↓ genetic researcher who researched peas

- white flower vs. purple flower

- * True Breeding

- every plant or animal carries 2 genes that can be heterozygous or homozygous

- one copy in sperm or egg

- dom. trait masks recessive

- each parent puts single set in sperm or egg

- kid gets both sets

- dom + dom = dom dom + rec = dom rec + rec = rec

- law of segregation + law of independent assortment

- apply to chromosomes

- ↳ when you make egg/sperm 1 copy

- indep. = 50/50 chance

8/10

homework
8/14/18

- Observing phenotype is not sufficient for genotype

Pun Square

① Key - Petunia or sea slug / dom or rec.

zamur no diff muttn in Elephants

Domesticated

gray

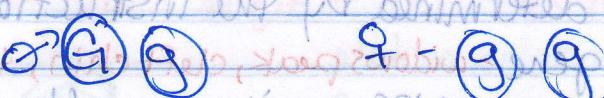
brown

rec

② Determine parents genotypes

symbol of ♂ Gg ♀ gg

③ Make gametes - Sperm/egg



④ Draw fill in gametes

	G	g
G	GG	Gg
g	Gg	gg

50/50 chance