# GoBio Interactive Worksheets

**PATTERNS OF INHERITANCE**

## LET'S PLAY JEOPARDY! - Drag and Drop

| Who Done It? | Plants and Pollen | Genotype and Phenotype | Dominance or Not |
|---|---|---|---|
| Monk who documented inheritance | Plants when bred to themselves will always produce organisms with same phenotype | Forms of a genes that determine a specific trait | The actual genetics of an organism |
| Plant that Mendel used in his experiments | When a flower pollinates itself. | Section of a chromosome that codes for a trait | Allele that is expressed when present |
| Job held by Mendel while studying genetics | Male gamete of a plant | Form of a trait that gets expressed | Allele that must be inherited from both parents to be expressed |

Alleles Dominant Monk Phenotype

Recessive Gregor Mendel Gene Pollen

True-breeding Genotype Pea plant Self-pollenating

**Homozygous dominant =** ☐☐

**Homozygous recessive =** ☐☐☐

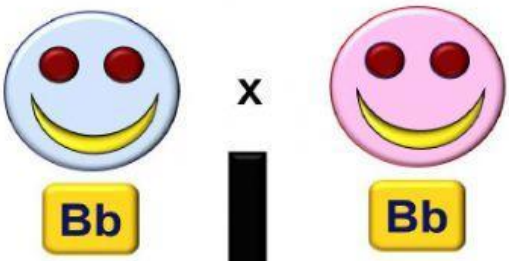
**Heterozygous =** ☐☐☐☐☐☐☐

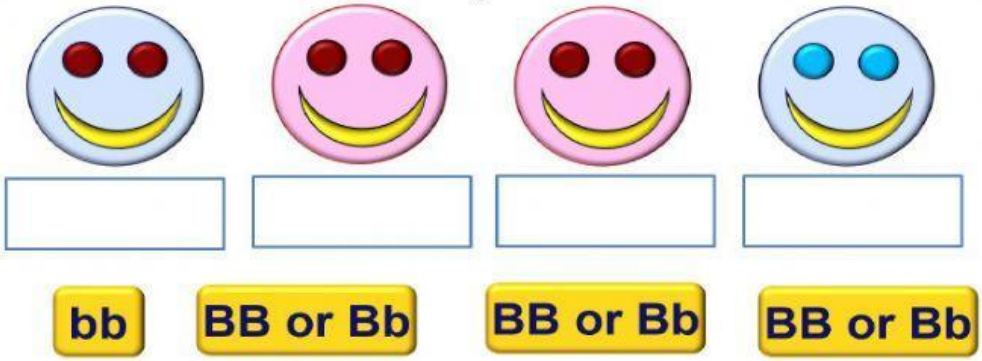
**Ww** **rr** **aa** **Ss** **Aa** **BB** **Yy** **Ee**

**Tt** **Bb** **RR** **bb**

LIVEWORKSHEETS

## Babies are Us! – Drag and Drop




## Making gametes! Type in correct answers

| | |
|---|---|
| BB | = brown eyes |
| *bb* | = blues eyes |
| B*b* | = brown eyes |

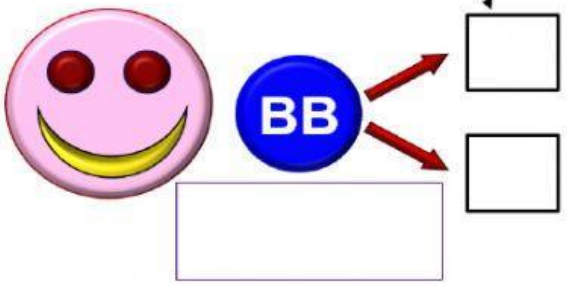
_____ = can mask others

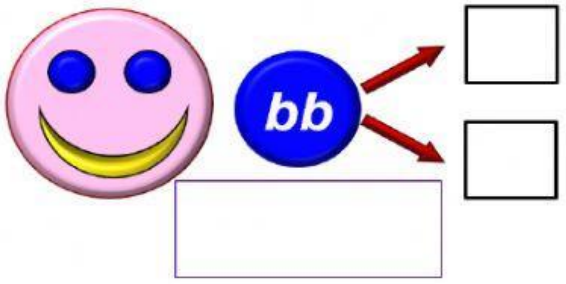
_____ = can be hidden

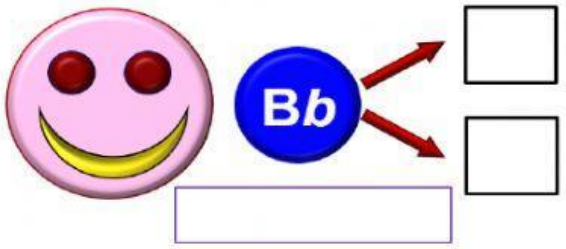
→ brown is _____ over blue

→ blue is _____ to brown

Don't forget these!



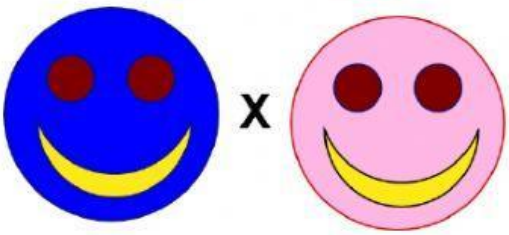

LIVEWORKSHEETS

## Punnett squares – drag and drop

**Complete/Simple Dominance**

**Monohybrid Cross = 1 trait**

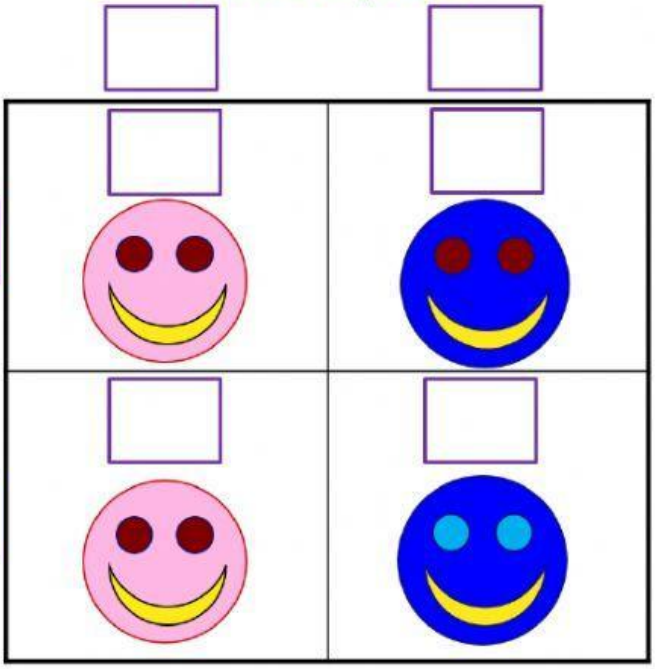
**Bb x Bb**



| B | B | B |
|---|---|---|
| b | b | b |
| BB | BB | BB |
| Bb | Bb | Bb |
| bb | bb | bb |

male / sperm

female / eggs

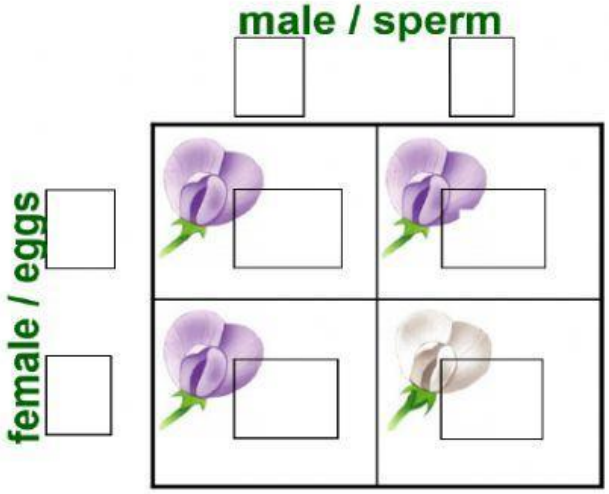


**Pp x Pp**



male / sperm

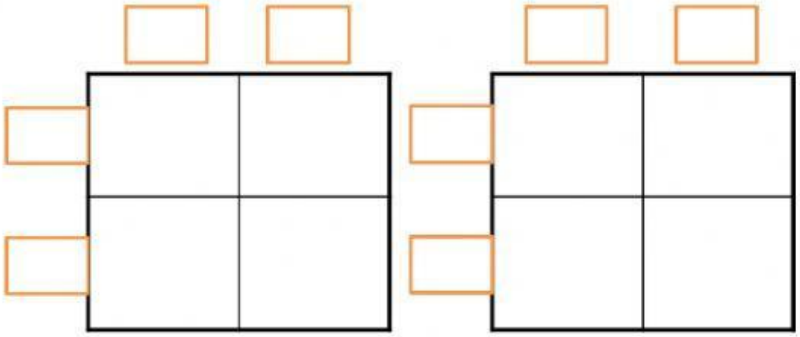
female / eggs



| | % genotype | % phenotype |
|---|---|---|
| PP  | 25% | 75% |
| Pp  | 50% | |
| pp  | 25% | 25% |

LIVEWORKSHEETS

A red (R) rooster and a white (r) hen are mated. They produced four offspring: 2 reds and 2 whites. What are the genotypes of the parents?



Alleles
R = red
r = white

Possible parents
Male = _____
Female = _____

Your answer to the question: _____

SUBMIT YOUR WORK VIA EMAIL OR GOOGLE CLASSROOM

LIVEWORKSHEETS