

# 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

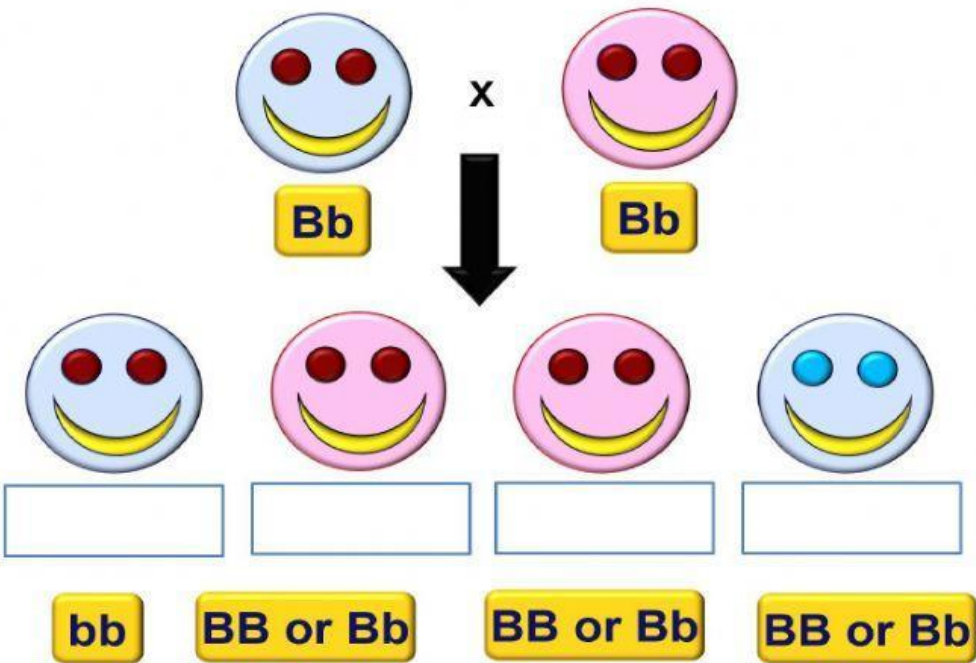
Homozygous dominant =

Homozygous recessive =

Heterozygous =

**Ww**   **rr**   **aa**   **Ss**   **Aa**   **BB**   **Yy**   **Ee**  
**Tt**   **Bb**   **RR**   **bb**

Babies are Us! – Drag and Drop



Making gametes! Type in correct answers

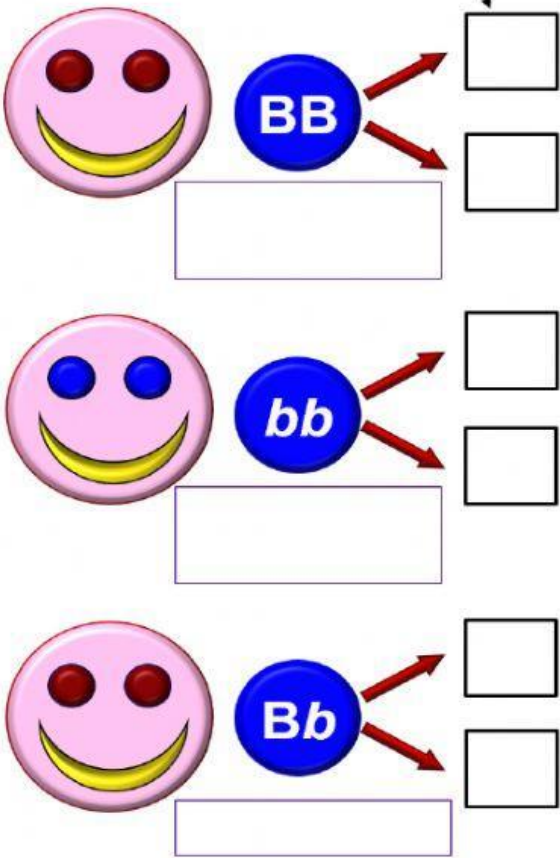
BB = brown eyes  
bb = blues eyes  
Bb = brown eyes

\_\_\_\_\_ = can mask others

\_\_\_\_\_ = can be hidden

→ brown is \_\_\_\_\_ over blue  
→ blue is \_\_\_\_\_ to brown

Don't forget these!

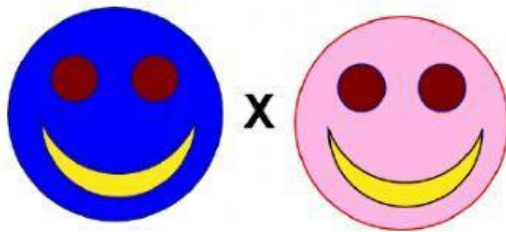


## Punnett squares – drag and drop

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 |

female / eggs

male / sperm

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

**Pp x Pp**



male / sperm

female / eggs

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

% genotype % phenotype

**PP**

25%

75%

**Pp**

50%

**pp**

25%

25%

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](#)