







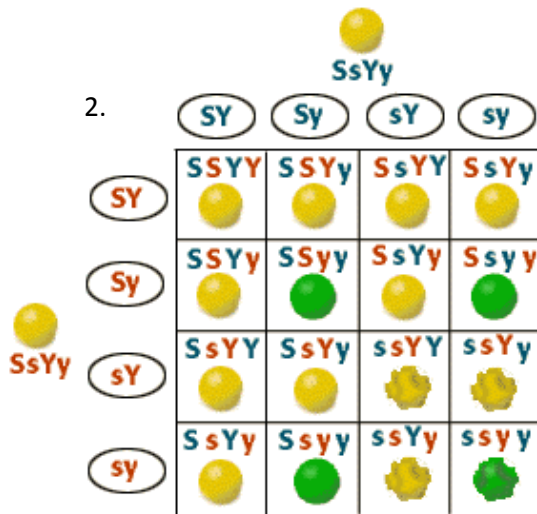
Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Genetics Gateway Review

- Use the diagram to the right to compare/discuss the following pair of terms.
  - Dominant & Recessive
  - Homozygous & Heterozygous
  - Genotype & Phenotype

	Seed Form	Seed Color	Stem Length
Dominant	 Round(R)	 Yellow(Y)	 Tall(L)
Recessive	 Wrinkled(r)	 Green(y)	 Short(l)



Write at least a paragraph interpreting the genotypes and phenotypes of the dihybrid cross to the left.

- A child is born with type AB blood. John has type O blood and believes he is the father while the mother has type AB blood. Draw a punnett square with the cross of the 2 potential parent's blood types and determine if John really is the father. Write at least a paragraph justifying your answer (be sure and refer to your punnett square).
- Hemophilia is an X-linked recessive trait. If a mother that is a carrier for the hemophilia trait, marries a man that does not have the hemophilia trait, is it possible for any of their children to have hemophilia passed on to them. Draw a punnett square for the possible offspring outcome and write a paragraph explaining the punnett square and if any of their children could potential have hemophilia or not.