

Genetics and Behavior Study Guide

Name: _____

- All human cells have _____ chromosomes except your sex cells that have _____ chromosomes. (46, 23)
- _____ is a chemical that is produced by one animal to influence the behavior of another animal of the same species. (Pheromone)
- Gregor Mendel studied heredity using _____ plants. (Pea)
- If an allele for a particular trait masks another allele for that trait the allele is _____: is represented by a capital letter. (Dominate)
- Males have _____ chromosomes and females have _____ chromosomes. (What letters?) (XY, XX)
- If an allele for a particular trait is not expressed at all when another allele for the trait is present, the allele is _____; it appears least often and is represented by lower case letter.(Recessive)
- Give two examples of courtship behaviors. Peacock spreading out its feathers, bull frogs croaking at night
Song Birds sending out sounds
- What type of asexual reproduction is used by sponges, and sea stars where new organism grow when the organism has been cut into two pieces. _____ (Regeneration)
- Anything in the environment to which an organism reacts is called a(n) _____ (Stimulus)
- _____ are more likely to have sex-linked disorders because they only have one X chromosome.
(Males)
- A species of plant has one gene for berry color that can produce either blue or purple berries. The allele *B* for blue-colored berries is dominant over the allele *b* for purple-colored berries. Two heterozygous plants with blue berries are crossed. What percentage of the offspring would be purple. 25 %

	B	b
B	BB	Bb
b	Bb	bb

- Which type of reproduction produces genetically identical offspring? (Asexual)
- Who is credited with creating the first model of a DNA molecule? (Watson and Crick)
- _____ also called trisonmy 21, individuals receive an extra chromosome on the 21st pair. (Down Syndrome)
- (Color Blindness) sex-linked disorder; individuals cannot pick out the difference between colors
- (Cystic Fibrosis) occurs when individuals receive two recessive genes that results in the built up of mucus and it also affect the pancreas
- (Hemophilia) sex-linked disorder; individuals have trouble with bleeding because the blood does not clot
- Riding a bicycle. (learned behavior)
- Speaking English (learned behavior)
- Birds migrating to the south for the winter. (Innate behavior)
- spinning a spider web (Innate behavior)
- sucking reflex that babies have when they are first delivered. (Innate behavior)

Make sure you know how to do PUNNET SQUARES.

Look over all of your notes and complete the study island lesson (I would go through it twice) and review any notes that we have taken from Unit 3. The Quiz IZ review will be available online as well.

Know that Mitosis produces cells that are exactly alike and meiosis produces sex cells that have half the number of chromosomes