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GCSE Science: *Biology*

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Genetics Worksheet

This worksheet accompanies *Inheritance.ppt* and *Altering Genes.ppt*

1. The gene for normal ears in rabbits (E) is dominant over the gene for large floppy 'lop ears' (e). Represent the following genotypes using letters:

a) homozygous dominant

b) homozygous recessive

c) heterozygous

2. Ben has a pet rabbit with normal ears.

a) What possible genotypes could his rabbit have for the gene relating to ears?

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b) Describe how Ben could establish the genotype of his rabbit by breeding it with other rabbits.

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c) A homozygous lop eared rabbit was crossed with a heterozygous normal eared rabbit. Over two years, they produced 12 offspring. How many of the offspring would you expect to have lop ears? Show your working.

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Chapter 12 patterns of heredity and human genetics worksheet answers. Genetics and heredity vocabulary worksheet answers. Genetics the science of heredity the cell and inheritance worksheet answers.

Below is a suggested sequence for implementing the activities contained in the unit. Consult each individual activity for implementation instructions, suggestions for adaptations and extensions, and applicable rules.

DayActivities Notes

Day 1 (40 min.) An Inventory of My TraitsStudents take an inventory of their easily observable genetic traits and compare these inventories with other students in groups.Observable Human CharacteristicsThis web page shows many of the traits included in An Inventory A Tree of Genetic TraitsStudents find the most and least common combination of traits in the class by marking their traits for tongue lamination, ear lobe attachment, and PTC tasting on f paper. Students then arrange the leaves on a large "tree of traits".Family Traits Trivia (homework) Students use playing cards to inventory traits in their family. (Note: individuals in families do not need to be connected to participate in this activity.) Day 2 (40 minutes.) Generations of strokesStudents follow and record the passage of the colored "pom-pom strokes" through three generations of gingerbread people.Traits BingoIn this review activity, students delete or color bingo squares in response to questions about their traits.) Students distinguish between inherited and learned traits by creating a "trait family tree" using handprints. (Note: Individuals in families do not need to be connected to participate in this activity.) Day 3 (40 minutes.) A recipe for traitsStudents learn that differences in DNA lead to different traits: 1) by randomly choosing strips of paper representing DNA, then 2) decoding the strips of DNA to complete a drawing of a dog.Family traits and traditions (working at home) Students and their families Play a game combination with cards to identify inherited traits and traits learned or passed on from tradition. Students make an inventory of their easily observable genetic traits, Working in small groups, groups, observe how their inventions of the traits differ from those of others. Students record their observations in a data table and compile a bar chart to show the most and less common traits of the group. Objectives The traits are observable characteristics that are transmitted from parent to child. An individual will have many traits in common with others. The overall combination of traits of an individual makes them unique. Some sections are more common in a population than others. pdf) Teacher Guide (pdf) Students mark their traits for language lamination, PTC tasting (a harmless and bitter chemical) and the attachment of the earlobe on tree leaves. Then put the leaves on a large tree whose branches represent a different combination of traits. Once completed, the tree forms a visual representation of the frequency of stroke combinations within the class. Objectives The traits are observable characteristics that are transmitted from parent to child. An individual will have many traits in common with others. The overall combination of traits of an individual makes them unique. Some sections are more common in a population than others. The 2004 Investigating Safety publication: A Guide for High School Te Textley et al. teachers raised an alarm in the teaching community about the utility and safety of PTC taste tests. This has led to the ban of PTC from many schools and districts - we believe unnecessarily. Yeah, PTC is toxic. In rats, the most sensitive animals tested, the oral PTC DL50 (the amount that killed 50% of the tested animals) is 3 mg/kg. However, the PTC is so intensely bitter that the taster can detect it in very small quantities. A single Carolina Biological Supply essay contains only 0.007 mg of PTC. And the amount that is licked by paper by an experimental subject islower than this. In addition, no toxicity report has been reported from the PTC test, which has been performed over tens of millions of in the world. To perspective PTC toxicity, we propose this quote (from Merritt et al., Am. Biol. Teacher Online 70: 4): There is no doubt that the PTC is toxic (LD50 in the rat is of 3 mg / kg, in the mouse 10 mg / kg and in the rabbit 40 mg / kg), but it is also the table salt (acute toxicity in the man at 500-1000 mg / kg). The problem is how much PTC is on a tasty card. Textley et al. They indicate that A "A single strip contains about 0.3 mg", but the two suppliers we checked indicate that a tasty card contains 0.007 mg (Carolina Biological Supply Company) or 0.005 à € "0.007 mg (sciencestuff). By assuming a linear curve of the dose response, we calculate that the 230 mg of NaCl contained in a bag of fries of a vending machine are about 100 times more toxic than the 0.007 mg of PTC contained in a tasting paper. We do not believe that there is no reason for teachers to worry about the toxicity of Taste PTC. Complete (PDF) Choose an English version ... Then download the leaves page and one of the following tree files ... leaveskin (big shape) Tree (overhead) Tree (puzzle) or bilingual versions English / Spanish ... then Download the leaves page and one of the following tree files ... leaveskin (big shape) Tree (above the head) Tree (puzzle) Bring home Game using the image cards that identify the traits. A family or group can use this activity to see which traits have in common.Family Traits Trivia (PDF) - English and Spanish in this practical activity The students follow and record the passage of the colored "Pompom" traits through three generations of gingerbread people. In this way, students learn that the traits are transmitted by parents to their children and that the brothers can receive or not the same tracts from their parents. Training tractivities are observable characteristics that are transmitted by parent to child. An individual will have Tratt in common with others, and even more with brothers and parents. The overall combination of stretches of an individual makes them unique. of traits are they are from every parent. Student pages (pdf fillable) -in English and Spanish Teacher Guide (pdf)Students cross or color bingo boxes in response to questions about their traits. This activity is designed to be used as a review following an Inventory of My Feelings, Generations of Paths and A Tree of Genetic Traits. Learning Student Objects will record their inherited traits. Students will compare traits to determine which are more and less common in the class. Track Bingo (pdf) in English and Spanish activity to catalogue the traits of a family on a tree made of stacked hand prints. Handy Family Tree (pdf) -in English and Spanish students create and decode a "DNA recipe" for man's best friend to observe how variations in DNA lead to the inheritance of different characteristics. Paper striations (representing DNA) are randomly selected and used to assemble a DNA molecule. Students read the DNA recipe to create a drawing of their pet, and compare it with others in the class to notice similarities and differences. Learn objects Each body inherits a unique combination of traits. DNA is a set of instructions that specify the traits of an organism. Variations in DNA lead to inheritance of different traits. Student Pages (pdf)226; English and Spanish Teacher Guide (pdf) Digital White Card Materials (ZIP file)A memory game where participants must discern the difference between an inherited trait or one that is learned/environmental. Family paths and traditions (pdf) in English, Spanish and Tongan Tongan

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