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Yes or no?

Background knowledge
Some dichotomous keys used to identify plants and animals ask yes or no questions. They also rely on looking for clear differences. Questions are numbered and answered in order. Look at the three pictures. A simple key would be:

- 1 Is the plant over 6 feet tall?
If yes, go to 2; if no, go to 3.
- 2 Is it an oak tree.
- 3 Does the plant have a flower?
If yes, go to 4; if no, go to 5.
- 4 Is it a daffodil.
- 5 It is moss.

Science activity
Make a yes/no key to distinguish between the different flowers shown below.

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Science investigation

Collect some flowers and create your own yes/no key. Ask an adult to help you. If there are no flowers available, then use pictures of flowers.

Students will place cards in order from smallest to largest (gene to the nucleus). What are genes and where can they be found? Have students try to place in order without definitions before giving the set of cards with the definitions. For example, all giraffes have long necks and all birds lay eggs. During the explanation piece, the teacher will be clearing up any misconceptions about inherited traits with an interactive PowerPoint, anchor charts, and notes. Students will follow the steps and record their observations on their lab sheet. Estimated Class Time for the Elaboration: 1, 45 minute class period DOWNLOAD THE FULL LESSON NOW The full lesson is available for download from my TpT store. When students are given choice the 'buy-in' is much greater than when the teacher tells them the project they will have to create. For example: Why do siblings look and behave differently from each other? The elaboration project will allow students to create a number of different project ideas ranging from bulletin boards to a video demonstrating their understanding of inherited traits. Estimated Class Time for the Elaboration: 2-3, 45 minute class periods (can also be used as an at-home project) EVALUATION The final piece of the 5E model is to evaluate student comprehension. ORGANIZE IT! The organize it station allows your students to lock in the terms used in this lesson with the correct definitions. Animals also have common behavioral traits. When babies are formed, they get some traits from each parent. Students will learn how traits are passed down and how the combination of inheritance and environment affect what a person might look like. How many chromosomes do humans have in each cell? Four of the stations are considered input stations where students are learning new information about inherited traits and four of the stations are output stations where students will be demonstrating their mastery of the input stations. Copyright © 2021 K5 Learning If you have siblings, you might have some of the same traits. The inherited traits lesson includes a PowerPoint with activities scattered throughout to keep the students engaged. It's kind of like shuffling a deck of playing cards. The students will also be interacting with their journals while taking notes from the PowerPoint. List the correct order from smallest to largest. Each time you shuffle the deck and pass out the cards, the players will have a different set of cards to play with. Animals of the same kind share a common set of physical traits. There are 4 follow-up questions that the students will answer to show reading comprehension of the subject. When possible, I like to give open-ended assessments to truly gauge the student's comprehension. Students are given the opportunity to draw a quick sketch of the order of gene to nucleus and to create an acronym that will help them remember the order it belongs to. How are genes different from DNA? When people hear the word "dominant", often they incorrectly believe the majority of the population expresses this trait. Research has shown that homework needs to be meaningful and applicable to real-world activities in order to be effective. How is DNA different from a chromosome? The teacher will help to clear any misconceptions about inherited traits. Some questions include: Where is DNA stored in a cell? At this station, the students will be answering three task cards: Explain what the purpose of a gene is. If you have students that need modified notes, the 5E lessons come equipped to help give every student access to the lesson. Describing a trait as dominant does not mean it is the most common; it means that it is expressed over the recessive trait. Once students have completed their organization, the teacher will come and check their understanding. Estimated Class Time for the Elaboration: 1-2, 45 minute class periods EXPLANATION The explanation activities will become much more engaging for the class once they have completed the exploration station lab. We can expect that all bumblebees will gather nectar and pollen and take it back to their beehive. However, other traits may be different, like your eye color or height. You cannot have all of your mom's traits AND all of your dad's traits! It's always a mixture. Each lesson is designed using the 5E method of instruction to ensure maximum comprehension by the students. The following post will walk you through each of the steps and activities from the inherited traits lesson plan. At the beginning of the lesson, the class will do a Think-Pair-Share to discuss the objective. WATCH IT! At this station, students will be watching a short video explaining the passing of traits. Students will then answer questions related to the video and record their answers on their lab station sheet. WRITE IT! Students who can answer open-ended questions about the lab truly understand the concepts that are being taught. You can read more about how I set up the station labs here. Save yourself a ton of time and grab it now. At the end of this inherited traits lesson plan, students will be able to recognize that inherited traits of individuals are governed in the genetic material found in the genes within chromosomes in the nucleus. Why are there more short-haired dogs than there are long-haired dogs? Students will be instructed to complete a few tasks and record answers on their lab sheets. ASSESS IT! The assess it station is where students will go to prove mastery over the concepts they learned in the lab. Included in every 5E lesson is a homework assignment, assessment, and modified assessment. Estimated Class Time for the Engagement: 20-30 minutes EXPLORATION This student-centered station lab is set up so students can begin to explore inherited traits. Estimated Class Time for the Elaboration: 2-3, 45 minute class periods ELABORATION The elaboration section of the 5E method of instruction is intended to give students choice on how they can prove mastery of the concept. What is the difference between a dominant and recessive trait? The questions are set up in a standardized format with multiple choice answers. ILLUSTRATE IT! Your visual students will love this station. Each of the stations is differentiated to challenge students using a different learning style. RESEARCH IT! The research station will allow students to explore a web page that allows the students the ability to research more about dominant and recessive traits and determine how many they have in each category. READ IT! This station will provide students with a one page reading about inherited traits. EXPLORE IT! Students will be working in pairs to better understand genetics.

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