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Independent, reliable guide to online education for more than 22 years! Copyright ©2020 GetEducated.com; Approved Colleges, LLC All Rights Reserved Individual Academic Disciplines have their specific to them and their courses, and science is no exception. In science, each state has decided whether or not to adopt the scientific standards of the next generation (2013). NGSS were developed by the National Academies, Achieve, the National Association of Science Teachers (NSTA) and the American Association for the Advancement of Science (AAAS). These new standards are internationally benchmarking, rigorous, research and aligned with expectations for college and careers. For teachers in the states that have adopted the new NGSS, the implementation of three aspects (basic ideas, science and engineering practices, cross concepts) are one of the main challenges at every level of the class. But science teachers also share some of the same problems and concerns as their other fellow teachers. This list addresses some of the other problems associated with science teachers going beyond curriculum development. Let's hope that providing such a list can help open up discussions with other teachers who can then work towards an effective solution to these issues. Nicholas Prior/Getty Images Many scientific laboratories, especially in chemistry courses, require students to work with potentially dangerous chemicals. While scientific laboratories are equipped with safety features such as air vents and showers, there are still concerns that students will not follow instructions and harm themselves or others. Therefore, science teachers should always be aware of everything that happens in their rooms during laboratory work. This can be difficult, especially when students have questions that require the attention of a teacher. Many topics covered by scientific courses can be considered controversial. Therefore, it is important that the teacher knows what the school district's policy is about how they teach topics such as evolution, cloning, reproduction, and more. Similar issues have been raised by other academic departments. There may be book censorship in English classes and political controversy in social studies classes. Districts should see that teachers in each subject should be given training to address contentious issues. Laboratories and experiments often require science teachers to spend a lot of time preparing and setting up. Thus, science teachers will have to organize their time in a different way in order to perform the responsibilities of planning, implementing and evaluating assessments. Changing laboratories to meet the needs of all students can also take a long time. Many laboratories cannot be in less than 50 minutes. Therefore, science teachers often face the problem of separating the stages of the experiment within a few days. It can be difficult when dealing with chemical reactions, so a lot of planning planning prudence should go into these lessons. Some science teachers have taken an inverted classroom approach, having students watch lab videos as homework before they come to class. The idea of an inverted class was initiated by two chemistry teachers to solve the time spent on setting up. A lab preview will help students get through the experiment faster, as they will know what to expect. Some science lab equipment costs a lot of money. It is obvious that even in years without budgetary constraints, budgetary problems can limit teachers from performing certain laboratories. Video labs can be used as a replacement, however, the possibility of practical training will be lost. Many school laboratories across the country are aging, and many of them do not have the new and updated equipment needed for some laboratories and experiments. Also, some rooms are configured in such a way that it is actually difficult for all students to effectively participate in laboratories. Other academic subjects do not require the specialized equipment needed for specialized scientific laboratories. While these subjects (English, math, social studies) are interchangeable in classroom use, science has specific requirements, and keeping scientific labs up to date should be a priority. Some academic courses require students to have compulsory math skills. For example, chemistry and physics require strong mathematics and, in particular, algebra skills. When students are placed in their classroom without these prerequisites, science teachers find themselves teaching not only their subjects, but also the prerequisites of mathematics needed to do so. Literacy is also a problem. Students who read below the grade level may have difficulty with science textbooks because of their density, structure and specialized vocabulary. Students may lack the knowledge to understand many concepts in science. Science teachers should try different literacy strategies such as chunking, abstract, sticky notes, and vocabulary of wall words. Many laboratory assignments require students to cooperate. Therefore, science teachers face the question of how to assign individual grades for these assignments. Sometimes it can be very difficult. It is important that the teacher is as fair as possible, so the introduction of the form of individual and group assessments is an important tool in providing fair grades to students. There are strategies for evaluating group collaborations and even allow students to get feedback on the distribution of points. For example, a 40-point laboratory score can first be multiplied by the number of students in a group (three students will be Points). The labs are then assigned a letter score. This class of writing will be converted into scores that can be evenly distributed by the teacher or team members and then determine what they consider to be a fair allocation of scores. Students will be It is often very difficult for science teachers to provide students with alternative tasks for laboratory days. Many laboratories cannot be repeated after school, and instead students are given testimonies and questions or studies for assignments. However, this is another level of lesson planning that can be not only time consuming for the teacher, but provide the student with much less learning experience. An inverted class model (mentioned above) can help students who have missed the lab. The solar system is extensive and complex, but that doesn't mean it should be inaccessible to students. Even young elementary school students can understand basic concepts about outer space, such as the concept of planetary orbit and the relationship between Earth, the Sun and the Moon. The following solar system games and activities will help you get your students hooked up to outer space. David Arches/Getty Images This activity from the American Institute of Aeronautics and Astronautics helps children in grades 2 and 3 understand how planets orbit the Sun. It also provides a practical demonstration of the terms of revolution, rotation and orbit. First, students must create models of planets using balloons. Use a big ball kick to represent the sun and balloons of eight different colors to represent the planet. Using a large outdoor area, such as a gym or an open space, set off the orbits of each planet with rope or chalk. One child will keep the yellow ball kick and stand in the center representing the sun. Eight other children will be assigned different plants and stand on the line representing the orbit of their planet. Each child will walk on their orbital line around the Sun as the teacher explains the concepts of orbit and revolution. Children representing the planets will then be instructed to rotate in circles as they walk along their orbital lines to represent the rotation of their planets. Warn them to be careful not to get too dizzy! JohnArcher/Getty Images Another abstract concept that is hard for children to understand is the expanse of space. Allow your students to visualize the scale of space by creating a large-scale model of our solar system. Explain to students that you are going to make a model of the human scale of the solar system. You may have to explain the concept of a scale model. For your model, one step will be equal to 36 million miles! The teacher should play the role of the Sun. Give each student (or group of students) a planet, and instruct them to take a certain number of steps from you, imagining the true distance of this planet from the Sun. For example, a student representing Neptune must take 78 steps from you. A child holding a model of Uranus will take 50 steps in the same that's Neptune. Continuing on the same path, Saturn will make 25 steps, Jupiter - 13, Mars - 4 steps, steps, makes 3 steps, Venus will make 2, and finally Mercury will make only 1 step. Natanii/Getty Images McDonald's Observatory at the University of Texas at Austin is showing up to help students in K-5 classes understand the objects they see in the night sky with this activity that shows constellations. Using the printed feature presented in the PDF file on the McDonald Observatory website or creating their own for the constellations of the zodiac, students will explore the night sky and understand why constellations are not always visible or are always in the same place in the sky. Give one of the numbers to each of the 13 students. These students must stand in a circle facing inwards in the following order: Gemini, Taurus, Aries, Pisces, Aquarius, Capricorn, Sagittarius, Ofiouh, Scorpio, Libra, Virgo, Lion and Cancer. Choose the other two students to represent the sun and the Earth. A student representing the Earth will walk around the sun in one revolution (which you can remind students takes 365 days). Note which constellations are visible depending on the location of the Earth in its orbit around the Sun. Prepare a set of index maps with key conditions of the solar system. Include terms such as meteorite, asteroid, asteroid belt, planet, dwarf planet, and all the names of planets in the solar system. Transfer one card to each student and instruct students to keep their card on their foreheads, with the term facing outwards. No one should look at their own map! Next, invite students to chat around the room and ask each other questions about themselves, such as: Is there anything orbiting around me? to find out the word on their map. Alicia Llop/Getty Images In addition to understanding the vastness of our solar system and the distance of each planet from the Sun, students need to understand the relative size of each planet. To demonstrate this, the Lunar and Planetary Institute emphasizes an activity that uses fruits and vegetables to illustrate the size of the sun and each of the eight planets to help children in 4-8 classes understand the relative size of planets and other objects that orbit the Sun. Use a giant pumpkin to represent the sun. Then use fruits such as mangoes, oranges, cantaloupes, plums, limes, grapes and blueberries to represent each planet. Peas, beans or grains of rice or pasta can be used to represent the smallest celestial bodies. Label 8 buckets or similar containers with the names of each planet. Mark the circle so that each player stands and mark it with the sun. Place the buckets in line in order of their position from the sun. Because this game for young kids (Pre-K to 1st grade) don't worry about scaling The thing is, for children to learn the names of the planets in order. One by one, let the children take turns trying to substitute a bag of beans or a ping pong ball in buckets. Make them start with buckets labeled Mercury and move on to the next planet every time they successfully put an object in a bucket. Mint Images/Getty Images Planet Jumble is another activity to help young children in Pre-K and kindergarten learn the names of the planets in order. In this activity from space racers, you will print out photos of the sun and each of the eight planets. Choose 9 students and give one of the photos to each child. You can either tape pictures on the front of the students' shirts or children hold a picture in front of them. Now, there are classmate students to direct each of the 9 children where to stand by placing the sun first and each of the eight planets in the correct order of the sun. GARLIC MARKK/SCIENCE PHOTO LIBRARY/Getty Images Helping students in grades 5-7 learn vocabulary related to the solar system. Create a set of bingo cards using the table function in the word processing program or buying blank bingo cards. Fill everyone with vocabulary terms students learn by making sure the names in the squares are random, so that each student has a different card. Calling the definition of terms. Students who have the appropriate term should cover it with a bingo chip. The game continues until one student has five terms covered vertical, horizontal or diagonal row. In addition, the game can continue until the first player is completely covered with his card. Elva Etienne/Getty Images This activity from Windows to the Universe is suitable for students from 7th to 12th grades. Connect students into groups of two and assign each planet, dwarf planet or moon. Give students at least a week to explore their planet or celestial body. Then, there are two pairs of students discussing each other in tournament style with the winner of each discussion advancing to the next bracket. Students should discuss and protect their planet or moon from others. After each discussion, classmates will vote on which planet (or moon) they would prefer to visit. The winning team will advance until the final winner is selected. Bjorn Holland/Getty Images Help young students understand the role of gravity in the orbit of the moon around the planet with this activity from Kids Earth Science. You will need an empty flow coil, a washer, a ping pong ball, and a string for each student or one of each to demonstrate to the class. Cut a piece of string 3 feet long and place it through the coil. The ping pong ball represents the Earth, the puck represents the moon, and the string simulates the attraction of Earth's gravity to the moon. Tie one end with the puck and the other end the ball for Instruct students to keep the stinger with the ping pong ball on thread coils and the puck hangs under it. Instruct them to slowly move the coils in a circle, causing the ping pong ball to turn in a circle around the fila being coil. Ask them to observe what happens to the ping pong ball as they zoom in or reduce its spin around the coil. Coil.

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