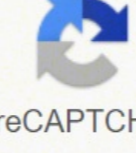


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LEARNING GUIDE

THE LEARNING MODEL
 This model is based on the idea that students learn best when they are actively engaged in the learning process. It is a cycle of learning that involves the student, the teacher, and the learning environment.

TARGETED AGES
 This model is designed for students in grades 6-8.

USING THE GUIDE
 This guide is designed to help you plan your lessons and activities. It includes a variety of resources and activities that you can use in your classroom.

THE LEARNING PLAN
 This plan is designed to help you plan your lessons and activities. It includes a variety of resources and activities that you can use in your classroom.



Homework *Christina Florman*

Density Questions
 Name _____ Date _____ Period _____

- Some students have determined the density of a substance to be 3.1 g/cm³. Based on what you've learned, is the substance more likely to be a solid, a liquid, or a gas?
- A solid cylinder of plastic has a density of 1.6 g/cm³. It is then cut exactly in half. What is the density of each of the pieces now and explain the reason for your answer?
- Calculate the density for a rectangular block using the following measurements: Length: 2.70 cm, Width: 1.10 cm, Height: 9.09 cm, Mass: 72.17 g. Round your answer for density to 2 decimal places. Include the correct unit for density. Show your work.
- A student has measured the mass of a rock as 42.00 g. To determine the volume, the student places the rock into 21.0 ml of water. The rock causes the level of water to rise by 6 ml. What is the density of the rock sample?
- Liquid A has a density of .90 g/cm³, liquid B has a density of 1.15 g/cm³, and liquid C has a density of .65 g/cm³. They are poured into a graduated cylinder and allowed to sit overnight. Assuming that the liquids do not mix into one another, which liquid will be on the bottom, in the middle, and at the top in the graduated cylinder?
- Using the same three liquids as in question 5, they are placed into separate graduated cylinders. A hydrometer is then placed into the cylinders. Which liquid will the hydrometer sink furthest into? Which liquid will the hydrometer float highest in?

WS 7.3 Solubility Curves

Based on the solubility below, decide whether each of the following is a saturated solution. If saturated, it is supersaturated or whether it is not enough solute to be in a saturated solution.

- 50 g KCl in 100 g of water at 30°C
- 50 g KCl in 100 g of water at 60°C
- 50 g KNO₃ in 100 g of water at 40°C
- 50 g KNO₃ in 25 g of water at 80°C
- 65 g KNO₃ in 60 g of water at 70°C
- 25 g KNO₃ in 100 g of water
- 25 g NaCl in 100 g of water
- 40 g of KO in 100 g of water at 20°C

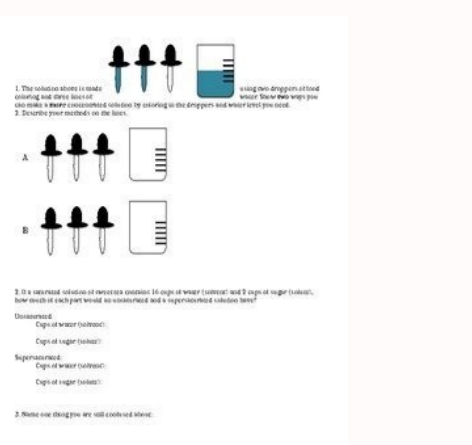
9) How many grams of KCl can dissolve in 100.0 g of water at 65°C?
 10) What temperature would be required to get 25 g of KNO₃ to dissolve in 100.0 g of water?

SHOW ALL WORK FOR THE FOLLOWING

- How many grams of KNO₃ can be dissolved in 50.0 g of water at 60°C?
- What mass of KO can be dissolved in 200.0 g of water at 15.0°C?
- How much KNO₃ can be dissolved in 14.5 g of water at 65.0°C?
- How many grams of water will it take to dissolve 25.0 g NaCl at 60.0°C?
- How much water is needed to dissolve 44.8 g of KNO₃ at 52°C?
- What temperature would be required to get 67.0 g of KCl to dissolve in 100 g of water?
- What is the percent KCl in a solution that is saturated at 61°C?
- What temperature is required to make a 50.0% KNO₃ solution?
- What temperature is required to make a 63.0% KNO₃ solution?

20) Based on what you've learned to class, sketch a graph to show the same as in different four units where it comes to solubility & temperature? What do you think a solubility graph of gases would look like? Make a sketch.

AXIS X=0 10 20 30 40 50 60 70 80 90 100
 Y=0 10 20 30 40 50 60 70 80 90 100



For that reason, some lesson plan formats actually put this step first. You need to make sure students understand what you have taught. The basic lesson plan format has been around for decades, so there's no need to start from scratch. Figure out the amount of time you'll be teaching and break it down into segments. In your lesson plan, mark notations in textbooks you're using as a cross-reference. For the seventh-graders learning geometry, you may need to repeat the previous step by showing more geometry problems—and how to solve them—on the board. For example, for a second-grade lesson on animals, the class might take a field trip to a local zoo or watch a nature video. This helps you gain confidence and ensures successful classroom instruction. Common Sense is the nation's leading independent non-profit organization dedicated to empowering kids to thrive in a world of media and technology. The anticipatory set involves the teacher working to get students excited about the upcoming lesson. Leave space in the plan to go back over areas that were difficult for the students to understand. MORE FROM QUESTIONSANSWERED.NET Similarly, you might have first-grade students copy the sight words as you spell each out verbally as a class. The agency notes: "The purpose or objective of the lesson includes why students need to learn the objective, what they will be able to do once they have met the criterion, (and) how they will demonstrate learning...The formula for the behavioral objective is: The learner will do what + with what + how well." For example, a high school history lesson might focus on first-century Rome, so the teacher would explain to students that they are expected to learn the salient facts about the empire's government, its population, daily life, and culture, Curriculum-based hands-on board games and art activities related to the lesson break up the study sessions.ConclusionConclude the lesson by summarizing what you've discussed. Go over any areas where students might still be struggling. To ease your job in creating a lesson plan, use a template. If not, you may need to revisit the lesson tomorrow. You might write a problem on the board and then call on students to help you solve it, as they also write the problem, the steps to solve it, and then the answer. Independent practice, by contrast, can include homework or seatwork assignments, which you give to the students to complete successfully without the need for supervision or intervention. Guided practice provides each student a chance to demonstrate her grasp of new learning by working through an activity or exercise under the teacher's direct supervision. By walking through the lesson plan, you'll find areas that might need tweaking. Give yourself wiggle room in each of the lesson plans to make adjustments as needed. Once you figure out what kind of lesson plan you will be writing, then you can determine the best way to use the format to fit your needs. What you don't complete on Monday can be finished on Tuesday.IntroductionWrite an introduction for the lesson, giving an overview of what's expected. This step—sometimes called direct instruction— takes place when the educator actually teaches the lesson. If you'll be conducting a high school math lesson and all students will need are their textbooks, lined paper, and calculators, that makes your job easier. Use that extra copy of the lesson plan to practice at home. You don't want to give a science lesson on creating a volcano and find out once students are gathered and ready that you've forgotten a key ingredient like baking soda. What parts worked and which ones need adjusting? Regardless of the grade level you teach, Hunter's model has been adopted and used in various forms for decades by teachers across the nation and at every grade level. Always gather all needed supplies ahead of time, and have them ready and available at the front of the room. After you've completed the lesson in the classroom, evaluate how it went. You may need to pause to show students how to successfully work through problems if they are still struggling. At the heart, that's what teachers do. If you're teaching a lesson on simple geometry to seventh-graders, have students practice with the information you just taught, says the ASCD (formerly the Association for Supervision and Curriculum Development). Include details specific enough that a substitute teacher could come in and understand them. 5 Items in Curriculum Set In order to continue enjoying our site, we ask that you confirm your identity as a human. Follow the steps in this method, and you'll have a classic lesson plan that will be effective at any grade level. The Hunter Method, as it came to be called, includes these elements: objective/purpose, anticipatory set, input modeling/modeled practice, check for understanding, guided practice, independent practice, and closure. If it's a first-grade lesson on important sight words to know, you might write the words on the board and explain what each word means. All good lesson plans contain specific components or steps, and all essentially derive from the seven-step method developed by Madeline Hunter, a UCLA professor and education author. And, always, asked focused questions: If students can answer specific questions about the lesson, they likely have learned the material. A lesson plan free template is ideal for creating weekly lesson plans. It helps them when the teacher demonstrates what is to be learned." Modeled practice, which some lesson plan templates list as a separate step, involves walking the students through a math problem or two as a class. Students learn best when they know what they are expected learn and why, says the U.S. Department of Education. If you're conducting a science experiment lesson, make sure you have all of the ingredients needed so that all students can complete the experiment. And, be sure to guide the learning. Worksheets, question and answer sessions, group activities and individual assignments make use of various learning styles. If students don't seem to grasp the concepts you've just taught, stop and review. Contact us Privacy Terms of use Community guidelines © Common Sense Media. Review the key points. In a high school algebra class, for example, you might write an appropriate math problem on the board, and then show how to solve the problem in a relaxed, leisurely pace. During this step, you might move around the room to determine your students' level of mastery and provide individual help as needed. Make an outline, including an estimated amount of time for each section. Families, educators, and policymakers turn to Common Sense for unbiased information and trusted advice to help them learn how to harness the positive power of media and technology for all kids. If you're feeling like the lesson plan involves a lot of guidance, you're right. Highlight materials you'll need and have them available ahead of time.InstructionConsidering the academic, social and personal needs of the students, write out the instruction plans, keeping sequencing in mind for flow. It doesn't have to be a rigid formula; consider it a general guideline that will help any teacher cover the necessary parts of a successful lesson. A lesson plan is a detailed step-by-step guide that outlines the teacher's objectives for what the students will accomplish during the course of the lesson and how they will learn it. Thank you very much for your cooperation. Creating a lesson plan involves setting goals, developing activities, and determining the materials that you will use. In this important step, the teacher wraps things up. Lay out a week's worth of plans to carry over any information from one day to the next. Common Sense and other associated names and logos are trademarks of Common Sense Media, a 501(c)(3) nonprofit organization (FEIN: 41-2024986). All rights reserved. Prepare for class by writing clear lesson plans that are easy to read. Once you've written the lesson plans, make a copy to have in case the original is misplaced and as a backup at home.ObjectivesPlan your objectives for the lesson plan. This step should be very visual, as the DOE explains: "It is important for the students to 'see' what they are learning. Decide if you want all lecture lessons, part lecture and student involvement or an activity-based lesson. By contrast, in a high school class getting ready to study William Shakespeare's play, "Romeo and Juliet," students might write a short, reflective essay on a love they lost, such as a former boyfriend or girlfriend. Incorporating various learning styles in the lesson plans can be an effective teaching method with a wide range of students and their abilities. Include a warm-up activity to get the students' attention. Creating an anticipatory set "means doing something that creates a sense of anticipation and expectancy in the students," says Leslie Owen Wilson, Ed.D. in "The Second Principle." This can include an activity, a game, a focused discussion, viewing a film or video clip, a field trip, or reflective exercise. Just as a writer wouldn't leave her readers dangling without a conclusion, so too, the teacher should review all key points of the lesson. Mark down if you plan to assign homework related to the lesson.EvaluationPractice scripting, especially if you're new to teaching. Tie in one lesson plan to the next one. Include the procedures you'll use during the intro and the rest of the lesson. One easy way to do this is to ask questions. Think of this phase as a concluding section in an essay. Do have extra pencils, textbooks, calculators, and paper available, though, in case any students have forgotten these items. The agency uses an eight-step version of Hunter's lesson plan, and its detailed explanations are well worth reading.

2021/06/15 · Amanda has taught high school science for over 10 years. She has a Master's Degree in Cellular and Molecular Physiology from Tufts Medical School and a Master's of Teaching from Simmons College. 2021/11/19 · Seven grams of computer chips with a specific heat of 0.2 kJ/kg.K are initially at 18 °oC. These chips are cooled by placement in 8 g of saturated liquid R-134a at -36 °oC. Subject: Digital Literacy and Computer Science (4), Science (4) Title: Using Code to Create an Animated Animal Description: Students will use the free online coding program, Scratch, to learn the basics of coding and how to use blocks and animations to create an animated animal. Students will show how an animated animal will receive, process, and respond to information ... Subject: Digital Literacy and Computer Science (4), Science (4) Title: Using Code to Create an Animated Animal Description: Students will use the free online coding program, Scratch, to learn the basics of coding and how to use blocks and animations to create an animated animal. Students will show how an animated animal will receive, process, and respond to information ...

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