

Pdf free Motivate the unmotivated with scientific discrepant events free (2023)

promoting scientific inquiry inside and outside of the classroom exposing students to discrepant events and online simulations can spark wonder and motivate them to investigate science beyond the classroom by stephanie toro april 12 2021 a discrepant scientific event is a surprising occurrence such as corn growing faster in the dark than in the light that challenges learners preconceptions because they at first appear to be nonacademic in nature and frequently differ one of the best ways to engage students in science at the start of a new unit is to use a discrepant event discrepant events pique students interest and leave them craving the knowledge that you plan to teach them students are often left begging you to tell them how did that happen discrepant events can be a fun way to either introduce a new concept in science or test your students understanding they are also powerful tools to develop inquiry skills an effective way to use discrepant events is to ask what could happen prior to the demonstration emphasizing that you aren't looking for a correct answer but asking using experiments based on the science of a discrepant event an experiment or demonstration in which the outcome is not what students expect o brien shows how learners can be motivated to reconsider their preconceived notions and think more closely about what has actually occurred and the underlying scientific explanations this discrepant event could be used especially to indicate how friction force can be effective in producing an unexpected result demonstration discussion explanation and experiment steps are presented on how to turn a simple discrepant event into an instructional activity discrepant events are surprising occurrences that challenge learners preconceptions 1 these events puzzle students because the results are contrary to what they believe should happen 2 due to the unexpected outcome students experience cognitive disequilibrium 3 and this often leads to a desire to solve the problem discrepant events are very powerful ways to stimulate interest motivate students to challenge their covert science misconceptions and promote higher order thinking skills the key point is a discrepant science event can be as simple as floating two identical cans of soda one regular and one diet and observing that one floats while the other sinks discrepant science events limón 2001 are designed to puzzle students and cause them to wonder why the event occurred as it did eissn n a stirring the biology teaching pot with discrepant events wright emmett l govindarajan girish american biology teacher v54 n4 p205 11 apr 1992 proposes the use of conceptual discrepancies to stimulate student inquiry into scientific concepts abstract discrepant events are surprising occurrences that challenge learners preconceptions 1 these events puzzle students because the results are contrary to what they believe should happen 2 to sum up main advantages of applying discrepant events in science education can be stated by mason et al 2004 as discrepant events lead individuals to feel discontent about conceptual knowledge and in some cases reconsider their pedagogic practices by sylvia cini discrepant events are occurrences which defy our understanding of the world by presenting unexpected outcomes these phenomena are often used in science demonstrations to grab the attention of an audience and engage visual learners particularly young children using his inquiry oriented experiments based on the science of discrepant events hands on explorations or demonstrations in which the outcomes are not what students expect teachers can challenge students preconceived ideas and urge them to critically examine empirical evidence draw logical inferences and skeptically review their initial expla ideas resources my discrepant event introductory lessons typically include five different demos each practicing a different skill recording observations asking questions recording data making predictions etc below are some of the materials i use in my classroom and resources on how to bring discrepant event science into your classroom the science

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