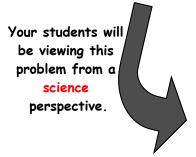
Teacher Instructions:

Problem Scenario: "Background Music"

The Main Problem: A primary school is thinking of playing

background music in the classroom as

students work. Is it a good idea?



How can we test the benefits of "music therapy"? Students will review an experiment that tests how plants respond to different types of music.

They will then consider whether the results of these experiments can be used to promote or discourage the use of background music.

Step 1

Review Stimulus Items

Step 2

Classroom Discussion

Step 3
Student
Response

***students should have access to their notes as they enter their answers

***students may also have access to the Stimulus Items as they enter their answers Stimulus Item #1 — "Music and Plants" (science experiment)

Stimulus Item #2 - The Effect of Music on the Brain

**Students should take notes as they review the Stimulus Items.

If time allows, students are encouraged to conduct their own research!

Lead a **class discussion** about issues related to the topic. You are being provided a sheet to help you guide the classroom discussion.

Product Option: Have students **conduct the experiment** that has been provided, which tests the influence of music on plant growth. This is an experiment that requires several weeks of observations (if time is a factor, you can have students analyze "mock results"). Discuss the results as a class, and draw a conclusion as to whether the music had an impact. Ask students if they feel that the results of this experiment could help make any predictions about how background music might effect student grades. How could the experiment be adjusted to test that hypothesis?

Extended Response: Have students answer the following questions using the online assessment system. Remind students to use information from the Stimulus Items to support their response.

 Describe an experiment that could be conducted to determine whether or not background music improves student grades. Be sure to identify the controlled variables and independent variables in the experiment.



Rubrics to grade student entries have been provided, and all questions have been mapped to the content standards. Results can be analyzed through the online system.