

Teacher Guide

Lesson: Exponential Decay

Grade Level: High School

Oregon State Standard: HS.PFE.A.2

Goal: Students will understand the exponential decay model and be able to apply it to multiple situations.

Prior Knowledge: Exponential Growth - Teach Pacific NW Federal Credit Union's "Exponential Growth and Purchasing a Home" lesson.

Procedure:

1. Use the companion PowerPoint, "**Exponential Decay**" to guide the students through a discussion about exponential decay.
2. As you go through the PowerPoint, guide students through the example equations – each student should do the equation in their notebook to have it to look back on as they do the worksheets on their own.
3. Assign the first worksheet, "**Exponential Decay.**" Give the students a day or two to work on it. Go over the answers and discuss trends students notice.
4. Assign the second worksheet, "**Exponential Growth and Decay - Review.**" Give students time to complete the worksheet and go over answers.
5. Big Take Away? Students will understand the depreciation tendency of different products, enabling them to be knowledgeable consumers.