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# Problem Solving

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## • Generic Lesson Plan Template

You should submit this form in addition to any computer generated files/documents/models to your group folder on Angel. Please create a .zip file and upload the group of files as a single archive.

Name: Stephen Ezell
Grade level(s)/Subject taught: 12 <sup>th</sup> grade, Problem Solving
Objectives: Students will be able to show their knowledge of budgeting thru the use of Stella. Students will show their knowledge of converting weeks to years and years back to months.

Please provide a rich **one-page, single-spaced**, description or a *vision* of your best thinking on a way or ways you might teach the planned lesson. (approximately ½ page for the teacher role, ½ page for the student role). Also, construct a tentative rubric that you might use with your students (see example)

Items to include in your lesson plan: (Choose your discipline/concepts from your own area).

1. *Write the Mathematical Concept* or “key idea” that modeling will be used to teach: (e.g. Students use mathematical modeling/ multiple representation to provide a means of presenting, interpreting, communicating, and connecting mathematical information and relationships)

Students will be applying mathematics in a real world sense. They will be using percents and converting them to decimals. The model will give them the opportunity to easily see what happens to expenditures and disposable income as salaries increase.
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The class will start off with a brief introduction as to what the expectations are. We will go over some of the mathematical topics to ensure all are at the same level of understanding. The teacher will then answer any questions pertaining to STELLA or the math involved. This should take about 10 minutes or so. Students will then be told to create a budget model using STELLA that would simulate the last budget they did in class without the Computer. The teacher would then walk around the room answering questions as needed. This would take about 30 minutes or so. Students would be asked to save their model so I could access them to grade them. A basic example of a model is attached here.