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### Using GSP to Study Transformations of a Sine Curve

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*The College at Brockport*

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## Using GSP to study transformations of a sine curve, related to study of tsunamis.

Name: Rose Kossow
Grade level(s)/Subject taught: 10-12 Mathematics
Objectives:  Students will use a GSP model to learn how variables in the general form affect the graph of a sine function.

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)

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Materials: GSP model, worksheet

“...a rich **one-page, single-spaced**, description or a *vision* of your best thinking...”

Prompts:

1. How will you assess the prior knowledge of the student?
2. How will you begin the lesson?
3. What are the teacher and students doing every 5-10 minutes? (Teacher Actions and Student Actions)
4. How will you assess the learning for the lesson?

Using \_\_\_\_\_ I plan on having my students...  
(software / modeling package(s))

