



7.7 Designing a Sequence of Tasks

Context

Ms. Fye's students have completed the Introduction to the Sine Graph Desmos Task where they learned about amplitude, midline, and period of the sine function. In the next few days, she plans to provide her students with opportunities to further develop and practice their understanding of amplitude, midline, and period, to apply this knowledge, and also to introduce them to phase shift.



[Introduction to the Sine Graph Desmos Task](#)

For this assignment you will design a next task in this sequence for Ms. Fye's class. It can be any of the following:

- a task that provides an opportunity for her students **to further develop** their understanding of amplitude, midline, and period related to sine functions and their graphs.
- a task that provides an opportunity for her students **to apply** their knowledge of amplitude, midline, and period to a real context through modeling.
- an investigative task intended **to introduce** phase shift to go along with amplitude, midline, and period.

For this assignment you will submit a single document that includes:

1. A link to your task. You may use Desmos or GeoGebra to design your task.
2. An implementation plan for your task.
3. A written explanation of the design choices for your task and how they align with all of the different things we have read this semester about what makes a good technology task.