



NGSS Planning Tool

This planning tool is meant to help you modify an activity you use in your classroom to align with the three-dimensional science learning outlined in *A Framework for K–12 Science Education (Framework)* and the *Next Generation Science Standards (NGSS)*. It is best to work through the activity while using this tool. Eventually, you'll create a set of activities linked to this activity or stretch your current activity across multiple days to engage students in an NGSS-aligned learning experience.

Please make sure you engage with the Snack or activity as you move through each of the questions!

- ③ In your experience, what ideas will students have about what’s going on in this activity? Use the following table to identify the evidence they would need to confirm or revise their ideas and the resources and science practices they need to collect that evidence. (At this point, it is helpful to look at the list of science and engineering practices to think about how your students will engage with their ideas.) ***Please note: This activity may not address all the wonderful ideas your students have!***

How might students explain what they see/observe in the activity?	What will they need to see or do to confirm or revise that explanation?	Science practices and resources students need to explore this idea.

4 What will your students know at the end of this activity (disciplinary core ideas, cross-cutting concepts, and practices)?

a. Brainstorm all the concepts/practices that students needed to engage with in this activity.

b. What would have been good for them to know/experience first?

c. What do they still need to know?

d. Use the space on the back of this sheet to create a concept map of these ideas and how they're connected. This will help you organize your activities to support students in building on their ideas and experience over time.