

Grade 2

Amplify Science unit name and summary

NGSS performance expectations addressed

Properties of Materials

Designing Glue

As glue engineers, students use engineering design practices to create a glue for use at their school. They conduct tests that yield quantifiable results, graph their data, analyze and interpret results, and then use that evidence to iteratively design a series of glue mixtures, each one better than the one before.

2-PS1-1: Matter and Its Interactions
2-PS1-2: Matter and Its Interactions
2-PS1-3: Matter and Its Interactions
2-PS1-4: Matter and its Interactions
K-2-ETS1-1: Engineering and Design
K-2-ETS1-2: Engineering and Design
K-2-ETS1-3: Engineering and Design

Changing Landforms

The Disappearing Cliff

Students play the roles of Earth scientists as they attempt to figure out what caused a rock cliff to change shape over time. They use models to investigate the erosion of rock and the formation of sand.

2-ESS1-1: Earth's Place in the Universe
2-ESS2-1: Earth's Systems
2-ESS2-2: Earth's Systems
2-ESS2-3: Earth's Systems
K-2-ETS1-1: Engineering and Design

Plant and Animal Relationships

Investigating Systems in a Bengali Forest

In their roles as plant scientists working at the Bengal Tiger Reserve, students work to figure out why there are no new Chalta trees growing in this part of the forest. Students investigate what the Chalta tree needs to survive, and collect and analyze qualitative and quantitative data to solve the mystery.

2-LS2-1: Ecosystems: Interactions, Energy, and Dynamics
2-LS2-2: Ecosystems: Interactions, Energy, and Dynamics
2-LS4-1: Biological Evolution: Unity and Diversity
2-ESS2-2: Earth's Systems