K-12 Unifying Concept: Our physical world is made of substances, materials, and objects that can be identified by their unique properties, and is organized into systems that are interconnected.

Wood Conceptual Story

FOSS - Kindergarten

Structure of matter

Physical change

Properties of substances

Conducting investigations

Evidence and explanation

Lesson 1.3

Wood and Water

Students investigate how water interacts with particleboard and redwood samples.

Lesson 1.4

Sink the Pine and Plywood

Students freely explore how to sink pine and plywood samples using paper clips and quantify their results.

Lesson 1.5

Sinking Investigations

Students systematically investigate how many paper clips it takes to sink redwood and particleboard samples and graph the results.

Lesson 2.1

Sanding Wood

Students use sandpaper to physically change the shape of basswood.

Lesson 2.2

Sawdust and Shavings

Students conduct an investigation to discover how sawdust and wood shavings interact in water.

Lesson 2.3

Making Sawdust

Wood

Students simulate the manufacture of particleboard by combining sawdust and a cornstarch matrix.

Lesson 2.4

Making Sandwich Wood

Students simulate the manufacture of plywood by gluing together thin pieces of wood.

Lesson 2.5

Nailing

Students are introduced to the woodworking skill of nailing in order to join together two pieces of wood.

Lesson 2.6

Staining

Students change the appearance of wood by staining it using tempera paint.

Lesson 2.7

Wood Sculpture

Students use their woodworking skills to fashion a sculpture using wood, glue, and nails, and finish the project with stain or paint.