Science A–Z

DOING WORK (K–2)

Correlation of Resources to National Science Standards

Use the chart below to discover how selected Science A–Z resources in the Doing Work unit support certain Next Generation Science Standards (NGSS). While a single reading resource, science activity, comprehension support, or lesson cannot satisfy an entire Performance Expectation, using these resources together can help students develop the understandings and abilities they will need in order to satisfy each standard listed below. Most standards cited align with the grade level of this Science A–Z unit. For a reverse correlation tool that connects the standards to resources, visit our NGSS correlations page: www.sciencea-z.com/main/NextGenerationScienceStandards.*

Check the Performance Expectations Key below this chart for the complete text of the standards cited for each resource.

Resource Type	Resource Title	Performance Expectations
Unit Nonfiction Book	*Doing Work* (3 reading levels)	**K-PS2-1; K-PS2-2; 2-PS1-2**
Process Activity	*Tasks and Tools*	**K-PS2-1; K-PS2-2; 2-PS1-2; K-2-ETS1-1; K-2-ETS1-2; K-2-ETS1-3**
FOCUS Book	*My Day of Work*	**K-PS2-1**
FOCUS Book	*Trucks and Diggers*	**K-PS2-1; K-2-ETS1-2**
FOCUS Book	*Building a House*	**2-PS1-2; K-2-ETS1-2**
FOCUS Book	*Animals That Do Work*	**K-PS2-1**
FOCUS Book	*Working While Playing*	**K-PS2-1**
Investigation Pack	Topic: Simple Machines I. Files: *Wedge; Ramp; Wheel and Axle; Lever* Mystery File: *Pulley*	**K-PS2-1; K-PS2-2; 2-PS1-2; K-2-ETS1-2**
Debate	*A Wheel Problem*	**K-PS2-1; 2-PS1-2**
Science Video	*Air Hub*	**K-PS2-1; 2-PS1-2; K-2-ETS1-1; K-2-ETS1-3**
Science Video	*Doing Work with a Wagon*	**K-PS2-1; 2-PS2-2**
Science Video	*Forces*	**K-PS2-1; K-PS2-2**
Science Video	*Suspension Bridges*	**K-PS2-1; K-2-ETS1-2**
Science Video	*What Is a Lever?*	**K-PS2-1; K-PS2-2; 2-PS1-2; K-2-ETS1-1; K-2-ETS1-2; K-2-ETS1-3**
Career Files	*Engineer; Steam Roller Operator; Tow Truck Driver; Crane Operator*	**K-PS2-1; 2-PS1-2**

Continued on next page

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Resource Type	Resource Title	Performance Expectations
Quick Read	*Machines Move People* (3 reading levels)	**K-PS2-1; 2-PS1-2; K-2-ETS1-2**
Quick Read	*Robots* (3 reading levels)	**2-PS1-2; 2-PS1-3**
Concept Books	*What Is Work?; Force and Weight; Force and Distance; Machines*	**K-PS2-1; K-PS2-2; 2-PS1-2; 2-PS1-3**
Science Diagram	*Force x Distance = Work*	**K-PS2-2**
Science Diagram	*Simple Machines*	**2-PS1-2**

Performance Expectations Key

K-PS2-1. Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object.

K-PS2-2. Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull.

2-PS1-2. Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose.

2-PS1-3. Make observations to construct an evidence-based account of how an object made of a small set of pieces can be disassembled and made into a new object.

K-2-ETS1-1. Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.

K-2-ETS1-2. Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.

K-2-ETS1-3. Analyze data from tests of two objects designed to solve the same problem to compare the strengths and weaknesses of how each performs.