

Screw: Winding Around



Materials

- *Simple Machines* Video found on YouTube at <https://www.youtube.com/watch?v=iunyZVbeC2s&t=388s>*
- 3-5 screws of different size lengths, diameters, and thread pitches
- Screw driver to fit each type of screw
- 1-2 bar(s) of soap
- Paper plate or tray to hold the soap

*Note: The screw is briefly discussed in the *Simple Machines Video* at 09:10, but is not shown being used by the actors.

Learning Objectives

- I can describe and compare different attributes of a screw.
- I can explain how a screwdriver is used to turn a screw.
- I can identify examples of simple machines in the world around me.

Skills

-  Language Development
-  Creative Play
-  Fine Motor
-  Scientific Inquiry

Exploration

Begin this activity by explaining to students that today, they will be investigating the **screw**, which is one type of simple machine. Place the screws in front of the students and encourage them to make observations:

- ***What do you notice about these screws?***
- ***What is a screw used for?***
- ***How do you think a screw works?***

Then, set up the activity by placing the bar(s) of soap onto the plate. Using the screw driver, demonstrate to the student how the screwdriver and screw is used by turning each screw into the soap. ***It is recommended that a grown-up screw each screw partially into the soap for stability. The student will then continue the process.***

Allow students plenty of time to explore the screwdriver, screw, and soap. As they manipulate the tools, the following discussion questions may be used to guide scientific inquiry and investigation :

- ***How are you using the screwdriver?***
- ***As you turn the screwdriver, what is happening to the screw?***
- ***What happens if you turn the screw to the right? To the left?***
- ***Is it easy or difficult to turn the screw?***
- ***Do all of the screws turn the same way? Tell me how you know.***
- ***Where else do you see screws in the world around you?***

