# Pre-K 4 – Simple Machines: Screws

## Key Concepts:
- Learn the parts of a screw.
- Learn what a screw does.
- Find screws in our environment.

## Careful Looking:
- Take a look at these brooches (pieces of jewelry that you can attach to clothes) created by Zack Peabody:
  - [https://www.si.edu/object/brooch:chndm_1993-112-1-a_c](https://www.si.edu/object/brooch:chndm_1993-112-1-a_c)
  - [https://www.si.edu/object/brooch-3482:saam_1999.11A-C](https://www.si.edu/object/brooch-3482:saam_1999.11A-C)
- What do you see?
- What do you think is keeping all the pieces of the brooch together?
- Does this look like other jewelry you’ve seen before?
- If it’s different, what’s different about it?

## What Do Screws Do?
- A screw holds things together.
- Take a look at a piece of furniture in your house. Can you find any screws? Sometimes toys have screws in them too, can you find any?
- To fasten a screw, you push it into a surface and twist, usually with
| **Make Your Own Screw:** | A screw is an inclined plane (threads) wrapped around a cylinder.  
| | ![Diagram](https://example.com/diagram.png)  
| | Can you make your own model of a screw? Try wrapping yarn or a pipe cleaner around a cylinder like a jar, paper towel tube, pencil or stick. |
| **Video:** | Watch The Screw – Eureka to learn more about what a screw is:  
| | [https://www.youtube.com/watch?v=YgROcddl6EE&feature=youtu.be](https://www.youtube.com/watch?v=YgROcddl6EE&feature=youtu.be) |
| **Literacy:** | Read The Assembly Plant by Melanie Lewis. Can you find the screw? What does the screw do?  
| **Screw Scavenger Hunt:** | Go on a screw scavenger hunt around your house! Before you start, make a prediction of how many screws you think you’ll find.  
| | Need some ideas of where to look? The kitchen might have a few including a corkscrew, milk bottle cap, jar lids, light bulbs, etc.  
| | How many screws did you end up finding?  
| | Draw a picture of one of the items you found that has a screw. |