

Design Something Useful From a Pringles Can

Learning Objectives

Obj 1. Understand and learn about repurposing (Wikipedia):

Repurposing is the process by which an object with one [use value](#) is transformed or redeployed as an object with an alternative use value. This kind of activity is as old as human civilization, with many contemporary scholars investigating that way that different societies re-appropriate the artifacts of older cultures in new and creative ways. ^[1] More recently, repurposing has been celebrated by 21st century hobbyists and arts-and-crafts organizations such as [Instructables](#) and other [Maker culture](#) communities as a means of creatively responding to the ecological and economic crises of the 21st century. Recent scholarship has attempted to relate these activities to American left- and right-[libertarianism](#).

Obj 2. Understanding why repurposing is important (<http://www.papillion-sanitation.com/news/article/repurpose-and-upcycle-items-papillion-sanitation>).

Prevents useful items from filling landfills
Saves money
Can be a fun family activity

Obj 3. Learn and understand basic skills for creating an object in Tinkercad.

Process

Identify a need or shortfall
Analyze how to fill the need with a design
Create design
Print design
Analyze design
Refine drawing
Reprint design
Apply design to bottle and use

Cool things others have done on Thingiverse using Pringles Cans

| | |
|------------------------|---|
| Rocket | http://www.thingiverse.com/thing:887300 |
| iPhone Speaker Support | http://www.thingiverse.com/thing:296744 |
| Pringspenser | http://www.thingiverse.com/thing:709023 |

Other cool things from around the web!

Hot Dog Cooker (<http://www.instructables.com/id/Hot-Dog-Cooker-Solar-Oven/>)
Create a Pin Hole Camera (http://www.exploratorium.edu/science_explorer/pringles_pinhole.html)
iPhone Speaker (<http://www.instructables.com/id/From-Pringles-box-to-Acoustic-Amplifier/>)



What can you create?

Assessment

- Allow students decide best design
- or
- Best use of Tinkercad
- Most creative (thoughtful) design
- Most useful design