

# Repurpose a Penny

## 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. <sup>[1]</sup> 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 the Penny Debate

It costs more to make a penny than a penny is worth (1.8 cents to make a penny).

Limited utility - Pennies are not accepted by all vending machines or toll booths. Pennies are generally not excepted in bulk...try to buy a car with pennies!

Currency is supposed to facilitate exchange...the penny no longer does this.

There has never been a coin that has a value as small as the penny.

All info from: [https://en.wikipedia.org/wiki/Penny\\_debate\\_in\\_the\\_United\\_States](https://en.wikipedia.org/wiki/Penny_debate_in_the_United_States)

### 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/prototype

Print design/prototype

Analyze prototype

Refine design

Reprint design

Apply design to penny and use

**Cool things others have done on Thingiverse using Pennies**



<http://www.thingiverse.com/thing:354938>



<http://www.thingiverse.com/thing:23378>



<http://www.thingiverse.com/thing:317809>

**Other cool things from around the web!**





**Assessment**

Allow students decide best design

or

Best use of Tinkercad

Most creative (thoughtful) design

Most useful design