

Create Something Fun With a Cork

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. Learn Fun Facts about Cork

Is there a cork shortage? These blog articles discuss the true nature of the rumored cork shortage and why it's still important to recycle and repurpose the grand old bottle stopper:

<http://www.lydony.com/is-there-a-cork-shortage/>

<http://www.greenlivingonline.com/article/green-myth-buster-1-cork-endangered>

Fun facts from Par Excellence Magazine.com (<http://www.parexcellencemagazine.com/food-wine/facts-about-wine-corks.html>)

Cork comes from the bark of a Cork Oak Tree. The bark of trees older than 25 years is carefully stripped from the tree to protect it and perpetuate the life of the tree. The bark is dried for up to six months then boiled for a few hours and then allowed to dry another 2 to 4 weeks.

The Egyptians first used cork as a stopper thousands of years ago.

Later, ancient Greeks and Romans used cork for a variety of uses, including stoppers for vessels of wine and olive oil.

In 1750, the first cork stopper factory opened in Anguine, Spain

The widespread use of cork ultimately resulted in wine bottles undergoing a transformation from short and fat to tall and slender, because the slender neck was easily sealed with cork plugs.

Spain and Portugal produce over 80 percent to the cork used in the world

For more fun cork facts visit the website: <http://www.parexcellencemagazine.com/food-wine/facts-about-wine-corks.html>

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 cork



<http://www.thingiverse.com/thing:214119>



<http://www.thingiverse.com/thing:603032>



<http://www.thingiverse.com/thing:381384>

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