Biomimicry

Biomimicry is the imitations of natural designs to create products and materials for human use.

In other words, humans are inspired by plant and animal adaptations, or characteristics. They mimic these adaptations in human products.

Watch this video clip about biomimicry:

<https://www.youtube.com/watch?v=4vq8ci4RTUs>

Part 1

Use the video clip as well as the websites below to describe three examples of products that were based upon adaptations. -

* examples-   
  • <https://biomimicry.org/biomimicry-examples/#.VrzNrDYrLH4>
* <https://www.youtube.com/watch?v=TmyfqjXOf7M&list=PLQPeyD-tleVI3dXN3uwyZdNa6mKpvvSff&index=7&t=0s>
* <https://www.mnn.com/earth-matters/wilderness-resources/photos/7-amazing-examples-of-biomimicry/sharkskin-swimsuit>
* <https://www.teachertube.com/videos/biomimicry-271183>

Example #1  
Organism product is inspired by:

Adaptation that was mimicked:

Description of product that was inspired by adaptation above:

Example #2  
Organism product is inspired by:

Adaptation that was mimicked:

Description of product that was inspired by adaptation above:

Example #3  
Organism product is inspired by:

Adaptation that was mimicked:

Description of product that was inspired by adaptation above:

Part 2

Come up with your own idea for how an organism’s adaptation could be turned into a design for something that humans can use. This should be something that hasn’t been created before. You might need to research some adaptations to help you brainstorm.

Your Design  
Organism product is inspired by:

Adaptation that was mimicked:

Description of product that was inspired by adaptation above:

Part 3

Test your knowledge of biomimicry by taking this quiz:

http://www.cnn.com/2010/TECH/innovation/06/21/biomimicry.design.quiz/index.html