

Web Quest #1: Designing Technology for A Sustainable Future - BIOMIMICRY

Introduction:

One approach to designing sustainable technologies of the future is called **BIOMIMICRY**. In this webquest you will use the Biomimcry Institute website to learn about what biomimicry is and study some examples. You will **share your findings with the class** and **hand in the various pages of this packet**. Follow the instructions and answer the questions in the packet to lead you on your journey.

BIOMIMICRY WEBSITE: <http://biomimicry.org/what-is-biomimicry/>

Process:

Part I - Introduction

- 1) Log on to the biomimicry website. For the duration of this webquest you may **ONLY** visit this site and its various pages. You may watch any videos that you come across within the site.
- 2) Read through the opening pages and write a short description in your own words of what “biomimicry” is:

Part II - Case Examples

Research at least three examples of biomimicry and answer the questions presented. Each of these examples must come from a different category that is listed in the website on the page “biomimicry examples.” (These categories are agriculture, transportation, architecture, medicine, communication, and energy).

Example 1:

Category:

Title:

Overall Description:

(Here you want to describe what part of nature is used in the design, e.g. type of animal, plant, etc.,

Sustainability benefit (in other words, what is the benefit of the biomimicry design? Does it save energy? Does it reduce waste? Does it create a healthier system?)

Example 2:

Category:

Title:

Overall Description:

(Here you want to describe what part of nature is used in the design, e.g. type of animal, plant, etc.,

Sustainability benefit (in other words, what is the benefit of the biomimicry design? Does it save energy? Does it reduce waste? Does it create a healthier system?)

Example 3:

Category:

Title:

Overall Description:

(Here you want to describe what part of nature is used in the design, e.g. type of animal, plant, etc.,

Sustainability benefit (in other words, what is the benefit of the biomimicry design? Does it save energy? Does it reduce waste? Does it create a healthier system?)