

KS3 Design Technology: Biomimicry

Week One: Research

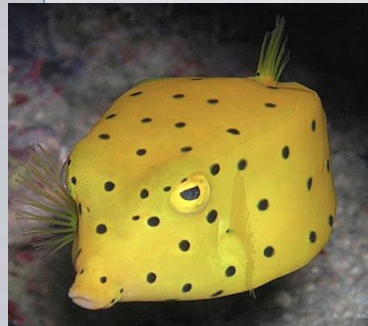
- Watch https://www.youtube.com/watch?v=UHb_XNgIHFY and find out biomimicry is. You can make notes if you want to.
- what other inventions have been inspired by plants and animals? Produce at least one A4 page of your own research you can use the websites listed below to help you **or** you can investigate some of these images below. Upload your research page onto teams.

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

<http://www.scoop.it/t/biomimicry/?tag=Peacock>

<http://www.treehugger.com/sustainable-product-design/best-biomimicry.html>

http://www.cleveland.com/science/index.ssf/2012/09/university_of_akrons_research.html



BOX FISH



WOODPECKER



SHARK



BUR



ARMADILLO



WHALE

The term **Biomimicry**....“... comes from the Ancient Greek words of **Bios** meaning ‘LIFE’ and **Mimesis** meaning ‘imitation’...” **A more simple definition would be** “...that Biomimicry is innovation inspired by nature...”

Learning Objectives:

- To understand what the term Biomimicry **means**...
- To learn about why Biomimicry is an **important** research area for Designers and Engineers.
- To discover some **different examples** regarding where Biomimicry has been used **successfully**

Week Two

Do **one** activity over the next week (**approx' 2 hrs work in total**) that shows me that you have gained a wider understanding with regard to this topic... **it needs to be something you can evidence (demonstrate) electronically or physically.**

Be **creative**... make it **fun**...be **different**.....but be **informative**.

1. **Write a script** and then record an **60 second audio clip** about Biomimicry aimed at Year 6's
2. **create a video clip** for a Children's news channel that educates students about Biomimicry (90 seconds max).
3. Draw and label a **brand new product** that has been influenced by nature **Or** make a model of it
4. Design a **new cover** for an book aimed at Yr. 6 about Biomimicry and write the **blurb** to advertise it. Make it look professional - draw your own cover (**don't** just copy and paste from a websites) - for 'info' on how to write Blurb just [clickhere](#) for some further 'general' information. The Blurb can be typed.

Remember this is just 1 activity you are selecting to do no more.

Please consider:

If you decide you want to do any of the activities that involve multimedia e.g. **Video** or **Audio clips** then you can use any software that you are familiar with... or is available for the kind of computer that you are using.

PLEASE NOTE: I am not able to teach you how to use software while we are currently working in this way, so if you want to do these kinds of multimedia tasks then you will need to select & learn how to use the software.

Otherwise I would suggest you do a different activity.