

Bio-Inspired Objects



Here are few objects you must have used or seen.

Can you think of something from the natural world that
has a similar form or
performs a similar function ?

Above images are representative of everyday objects that can be kept for display. You can keep other items like Velcro, suction cup-stand for cellphones, models of ship, model of a windmill emphasizing the blades, sponge etc.

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Background

Nature has inspired numerous human inventions and one can learn different functions using nature as a model to create sustainable designs (Benyus, 1997). Biomimetics is the “mimicking” of natural models, processes or systems for the purpose of solving human beings' everyday simple or complex problems. Biomimetics links biological sciences and design and is a growing area of design research (Soba et al., 2016). An interesting facet of biomimicry is its interdisciplinary approach and many researchers advocate introducing students to biomimetics for its potential to add new, stimulating and creative dimensions in the study of biology (Bhide & Chunawala, 2016), to capture students' attention and foster creativity and encourage critical thinking skills (Schroeter, 2003; Yurtkurana, Kirli & Taneli, 2013). Studies with older students have reported that biomimicry “*functioned as a catalyzer for creating a vibrant yet relaxing studio environment for design education; and it aided students in the process of learning from nature whilst raising an awareness of nature...*” (Yurtkurana, Kirli & Taneli, 2013, p. 638).

References

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