



Wonder Project

# Power Challenge

## Activity 3.1: Naturally aerodynamic

Discover some of nature's most aerodynamic life forms to find inspiration for your turbine design.

STEM professionals often take inspiration from te taiao (nature) to design innovative solutions to problems. This is called biomimicry.



In your rōpū, observe and discuss the shapes, textures, and curves that help these life forms move through the air or water.



What do you notice about its shape or features?

How would its shape/features help it move through air or water? Why?

How could it inspire a turbine blade?

		What do you notice about its shape or features?	How would its shape/features help it move through air or water? Why?	How could it inspire a turbine blade?
<b>Toroa</b> (albatross)				
<b>Kōtare</b> (kingfisher)				
<b>Harakeke</b> (flax)				
<b>Paikea</b> (humpback whale)				

## Discussion

Which shapes/features are the most aerodynamic? Why?

Which shapes/features could inspire your turbine blade design?