

Forces

2.4 Air resistance

1. Use the words and phrases from the box to complete the sentences below.

Use each word or phrase once, more than once, or not at all.

air resistance constant decreases friction faster slower streamlined

The forces of ... **friction** and **air resistance** tend to slow moving objects down. Air resistance is bigger if an object is moving **faster** You can use lubrication to reduce the force of ... **friction** , and reduce air resistance by making the object more .. **streamlined**

3. Explain why:

- a. Birds take on a streamlined shape to dive into water and catch fish.

Birds take on a streamlined shape to dive into water and catch fish, to reduce the water resistance acting on them.

- b. Large parachutes slow you down more than small parachutes.

Large parachutes slow you down more than small parachutes because they have a larger surface area and so experience more air resistance .