

Activity 8: Defying Gravity

Question

How can the force of gravity be overcome?

Resources

Access the website links from the online course or click on the links.

- Buoyancy
- 4 Forces of Flight

Instructions

Complete the following:

- 1 Read the questions in the **Basics of Gravity Chart** located on the following page. These questions will help you focus on the important information provided on the website.
- 2 Complete the "Basics of Gravity" section on your worksheet as you read carefully through the Buoyancy and 4 Forces of Flight websites.
- 3 In the second section of your worksheet, read the examples of ways to overcome gravity.
- **4** For each example, check which method of overcoming gravity is being shown: lift, buoyancy, or propulsion. In some cases, more than one may be involved.
- 5 Check your answers using the **Check Your Answers** on the following webpage in the course content.

Basics of Gravity Worksheet

Bas	Basics of Gravity				
In v	vhich direction does gravity pull?				
How can a balloon float in air?					
How can you float in water?					
How can an airplane float in air? (Name the extra force needed.)					
		Lift	Buoyancy	Propulsion	
1	bird wings				
2	inner tube floating on water				
3	jet engines				
4	hand gliders				
5	paper airplane				
6	hot air balloon				
7	rocket				
8	boat				