



**INSTRUCTOR USE ONLY**

## How an Airship Works

In the boxes below, draw a simple diagram of an airship. In the first box, use arrows to show how to airship ascends (rises) and in the second box show how the airship descends (falls).

- Valves release air from the air bags.
- This reduces the weight of the airship, giving it more lift.
- Air is transferred from between the two bags for stability.

**How an airship ascends (rises)**

- Pumps force air into the air bags.
- This increases the weight of the airship and compresses the helium gas so less lift is produced.
- Air is transferred from between the two bags for stability.

**How an airship descends (falls)**