

HOT AIR BALLOONS

Fill in the blanks with the correct form of the root word on the right.

Riding in a hot-air balloon is a (1) _____ calm and peaceful experience, quite (2) _____ any other form of flying. With no engines to provide power, a balloon depends (3) _____ on the winds around it to move in any directions. (4) _____, the maximum speed is normally around 15 kilometers per hour.

This kind of balloon is based on the simple (5) _____ principle that the (6) _____ of hot air is less than that of cold air. It is not, however, a large (7) _____, as a cubic meter of hot air is only about 250 grams lighter than the same amount of cold air. This means it takes (8) _____ four cubic meters of hot air just to lift one kilo, which explains why balloons that carry people have to be so enormous.

A gas burner is used to (9) _____ the air inside the balloon, causing it to rise. To go up more slowly or to make a (10) _____, hot air is released from the top of the balloon. The fact that the wind blows in different directions at different heights (11) _____ the pilot to steer the balloon left or right by moving it to higher or lower positions in the sky.

SURPRISE

LIKE

ENTIRE

CONSEQUENCE

SCIENCE

WEIGH

DIFFERENT

ROUGH

HOT

DESCEND

ABLE

