

Balloon Lift Experiment

Question: Will an air-filled balloon weigh the same, more or less than the empty balloon?

Mass of empty balloon (in grams): _____g

Mass of air-filled balloon (in grams): _____g

Mass of air inside the balloon (in grams): _____g

EXPERIMENT 1:

Mass of one hex nut (in grams): _____g

Predict: How many balloons will it take to lift the hex nut off the ground?

Mass of object (g)											
Number of balloons	0	1	2	3	4	5	6	7	8	9	10

Was your prediction correct? Explain why or why not.

Approximately how much lift (in grams) does one balloon provide?

EXPERIMENT 2

New object: _____

Mass of object (in grams): _____g

Predict: Based on what you know from the last experiment, how many balloons will it take to lift the new object off the ground?

Mass of object (g)											
Number of balloons	0	1	2	3	4	5	6	7	8	9	10

Was your prediction correct? Explain why or why not.