

# Welcome to Weird Science



## The Power of Air!



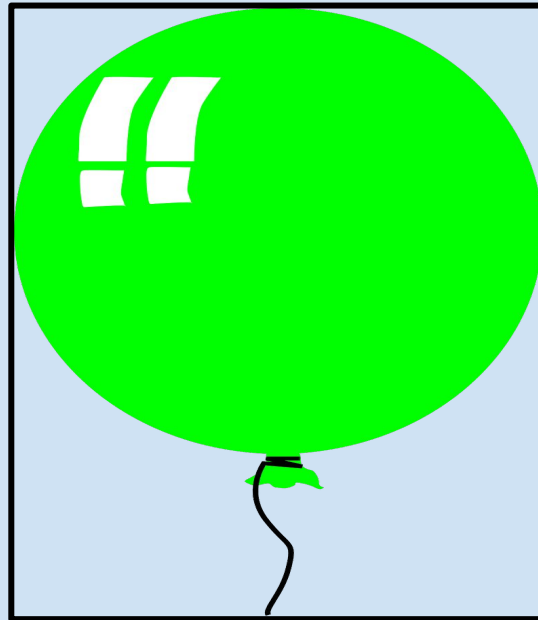
# Your Challenge: Lift heavy objects with air!

## Materials needed:

Round 12" balloon  
Balloon pump (optional)  
Desk or table  
Empty shoe box  
1-2 Chapter books  
Wooden blocks

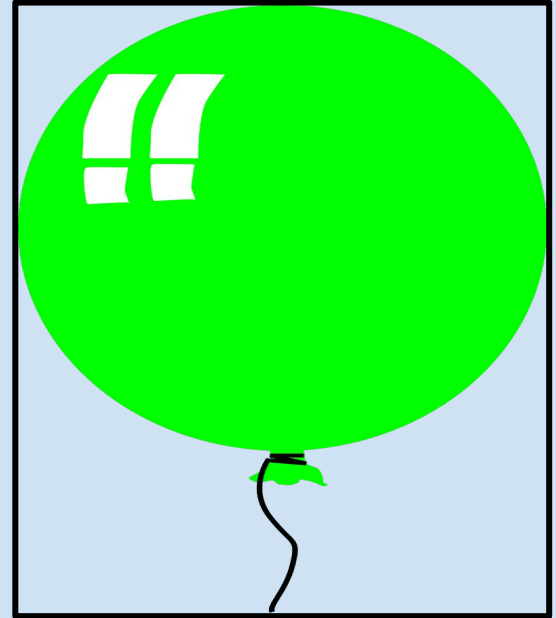
## Think about:

How can you lift one of these objects using only the balloon and air?



# Your Challenge: Lift heavy objects with air!

1. Put the balloon on your table with the mouth of it hanging over the edge.
2. Lie the object down on the table so it is covering about half of the round part of the balloon.
3. Kneel beside the table and using the air pump, begin to blow up the balloon. BE CAREFUL NOT TO PULL THE BALLOON OUT FROM UNDER THE OBJECT.
4. Watch what happens to the object!



# What is going on?

Air is all around us. We know air all by itself can't lift objects but air under pressure can be very powerful! By capturing the air inside the balloon and forcing more and more air inside, we increase the air pressure. As the air pressure increases, it becomes stronger and pushes up on the objects!

What are some ways you have used air under pressure?

