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## OUR HOVERCRAFT AND NEWTON'S LAWS!

### WHAT IS A HOVERCRAFT?

A hovercraft is a vehicle that floats on a cushion of air!

It can slide and glide in all directions!

### OUR HOVERCRAFT

### IN SHORT...

- Air fills the bag.
- The air pushes down.
- The bag lifts up.
- We glide and slide!

### HOW DOES IT WORK?

- A leaf blower blows air into the bag.
- The bag fills up with air and gets puffy.
- The air pushes down on the ground.
- The hovercraft lifts up and can move easily!

Pressure = Lift

### NEWTON'S 1ST LAW: INERTIA

An object at rest stays at rest. An object in motion stays in motion unless a force pushes it.

At rest... In motion, it keeps going!

Our hovercraft will keep moving until something stops it!

### NEWTON'S 2ND LAW: FORCE = MASS x ACCELERATION

A bigger push makes a bigger change in motion!

More air from the blower = more lift and speed!

### NEWTON'S 3RD LAW: ACTION = REACTION

For every action, there is an equal and opposite reaction.

Air pushes down... The down push from the ground makes our hovercraft lift up!

### SCIENCE IS FUN!

We used science to build something that floats and moves!

