

Cup Pick Up

Can you use teamwork to lift a small cup off the ground?



Think Like an Engineer:

How can you use teamwork to lift a cup off the ground?



Think Like a Physicist:

What forces are in play?

EXAMPLE IDEAS

Use string and tape to attach three SMART MOTORS to a plastic or paper cup. Train the motors to all pull at the same time to lift the cup off the ground. Can you think of other ways to lift the cup off the ground?



- What type of sensor will you try?
- Does the length of the string make a difference?
- What do you notice about the direction the motors turn?
- What if you only used two SMART MOTORS?