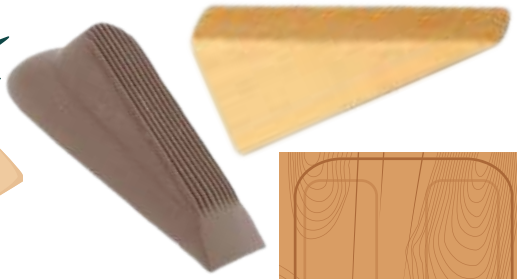
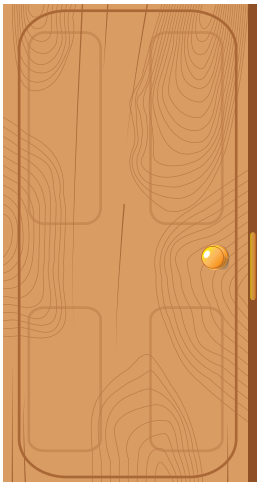
THE WEDGE CHALLENGE

Are you stronger than a piece of wood? Take the challenge and find out!

MATERIALS

a wedge, a door, you and your muscles





Steps to the Challenge

1. Swing the door open and closed - easy right?
2. Kick the door stop a little bit across the room - not too hard, correct?
3. Flex your muscles - not bad for a kid your age, eh?
4. Put the wedge under the door like so

5. Try to pull the door closed now.
6. Try again...what is wrong with you? Why can't you do it?
7. Call someone in with bigger muscles than you, have them try...what they can't either! Why not?

A **wedge** is a form of an inclined plane meant to split things apart or hold things in place. By creating friction a wedge does not allow a door to move.

Friction is a force that stops the movement of two touching things.