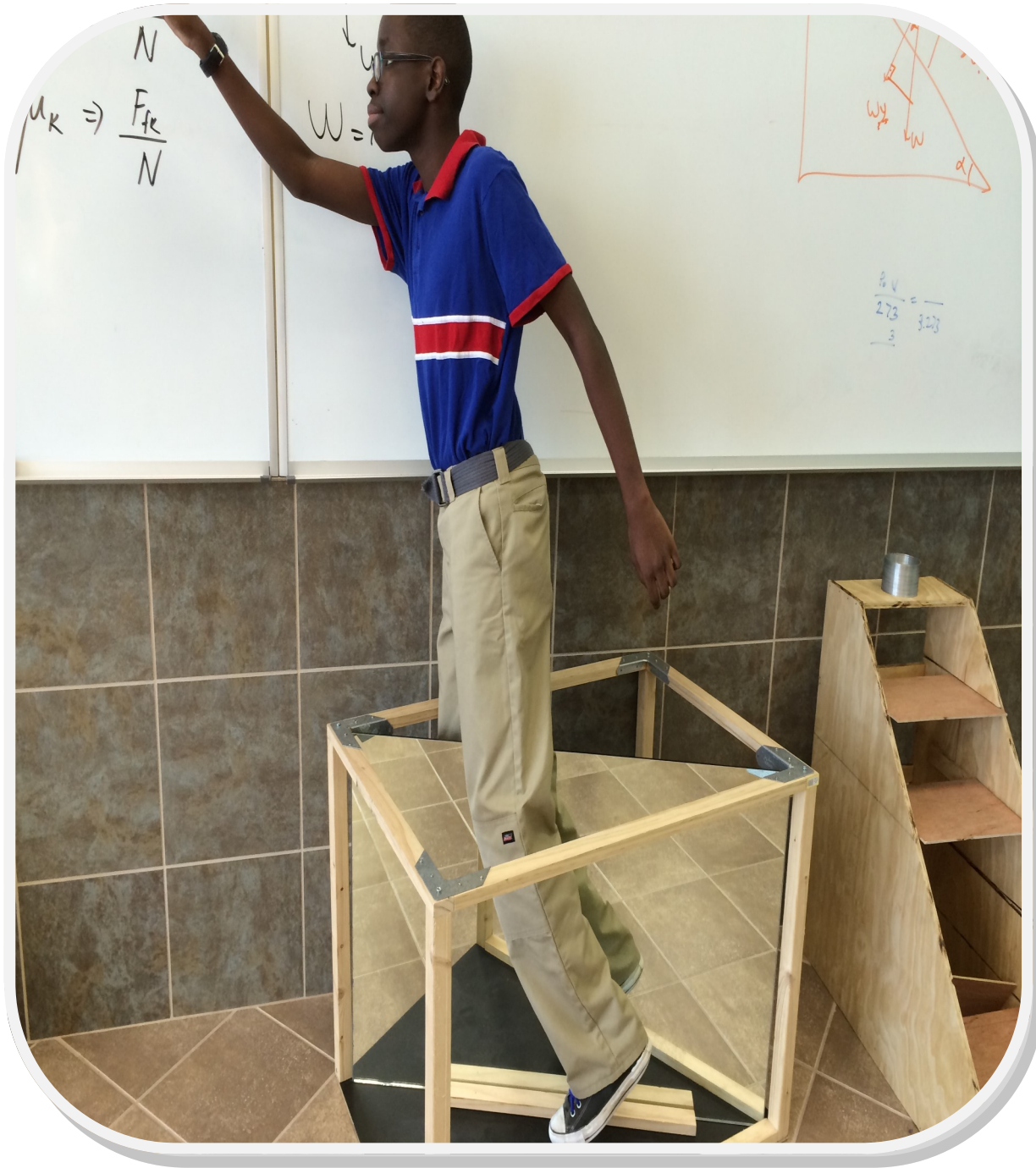


# ANTI-GRAVITY MIRROR

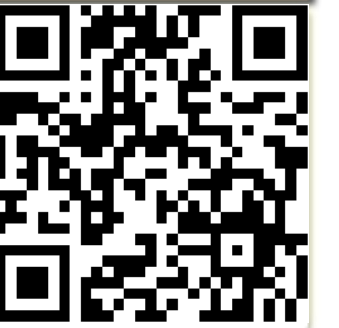
## HARMONY PBL LEVEL III PROJECT



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### Introduction and Materials

**T**his STEM Project: Anti-Gravity Mirror shows cool tricks with mirrors and their paradox. Anti-Gravity Mirror helps prove the Law of Reflection, it also conveys the fact that the human body is symmetrical.

### How does it work?

#### Materials:

- \* A wood square base,
- \* 4 to 8 sticks of wood,
- \* A mirror,
- \* Super glue, or gorilla glue,
- \* A drill,
- \* 10-20 nails,
- \* A measuring belt.

1. First and foremost, get all the materials set up in one giant pile.
2. Then, set the wood base on the floor and gorilla glue the mirror standing up on the diagonal of the wood base.
3. After that, cut the sticks of wood to the height of the

mirror, and gorilla glue it to the mirror to give it more support.

4. Finally, glue all the other pieces in their respective places.

### What is going on?

#### What is the scientific principle behind it?

This project demonstrates the Law of Reflection; it shows symmetry in mirror reflections. You stand with the edge of a large mirror which bisects your body. To the person watching, you still appear whole because of the two-fold symmetry of the human body. When you start moving up and down, it appears that you're levitating through air.

#### Which topics are covered?

#### The Law of Reflection

#### Which scientific principles/concepts did you learn?

I learned the definition of the Law of Reflection; when a light ray hits the surface of an object, the degree of the Incident ray is the same as the degree of the Reflected ray.

### Safety Precautions:

Well, since the project is dealing with a mirror; a breakable fragile object.

The performer must have a great deal of balance, or else he/she will fall and possibly injure themselves.

