

Magic Motion Inquiry Based Lesson (Pushes, Pulls, and Force)

1. Begin this lesson by giving each student a *Pushes and Pulls* sorting activity sheet.
2. Without telling students too much information, please have them cut and paste each square in the box where they feel it belongs (this is a good form of pre-assessment).
3. Allow time for students to explain which items they placed in each box and allow them to tell why they made their decision.
4. Hand out each student a copy of *What can it do?* sheet
5. Next, have students walk around the classroom and find objects that can be pushed or pulled (Some objects can be both pushed and pulled).
6. Allow time for students to pick their favorite objects and discuss with the class how and why it can be pushed, pulled, or both.
7. Give out the *Moving with Motion* drawing page. Ask students to draw an object that moves with electricity, wind, manpower, or gravity. Go over student drawings and discuss whether they are correct or incorrect.
8. Discuss with students that certain forces make objects move (or be in motion). These forces are (electricity, wind, gravity, and manpower). You may want to give some examples, show pictures, or demonstrate.
9. Finally, give students the *Move It* sorting page and allow students to cut and paste the object in the appropriate category according to the force behind its movement.

