

Tolulope Teniola
BEST LESSON

GPS: S2P3a- Demonstrate how pushing and pulling an object affects the motion of the object

S2P3b- Demonstrate the effects of changes of speed on an object

Target Grade: 2nd Grade

Materials: Rope (approximately 10-15 feet), Plastic Cups (enough for each student), Plastic Spoons (two for each student) Scarf (one)

Safety: Only use plastic materials. Metal materials will injure the students because the spoons could hit the children in the face.

Opening:

Open the lesson with a game of tug of war. Use the rope and tie the scarf in the middle. Have the students do groups of 3-4 on each side. Have the other students cheer the teams on. Before the game starts ask the students what type of force will be applied in order for the rope to move. Do not allow them to play until the question is answered. Whichever side wins will get a sticker.

Lesson:

Have the student return to seats. Begin reading section from science book, Chapter 7 lesson 2. Students should read via popcorn reading. Popcorn reading is when the students read aloud and at random moments during their reading they pass the reading responsibility to another random student. This makes the students actively follow along so that they won't be lost if they are selected. Once reading is complete have the students quietly answer end of lesson questions (do only two or three questions at the most to conserve time).

Activity: Give each student two plastic spoons and one plastic cup. Demonstrate how to assemble the spoon flipping apparatus in front of the classroom. Do not assemble for the students in order to make sure that they learn how to trust their own work. Place one plastic spoon face up on the desk. Place another plastic spoon directly in front of the previous spoon in the same direction. The stick of the new spoon should be directly underneath the round part of the old spoon. Place a cup about three inches away from the old spoon. There should be a straight line that includes the two spoons and the cup. Once the spoon flipping apparatus has been assembled, ask the students the following questions:

1. Lightly tap the round part of the first spoon. What happened?
 - a. The students should realize that not much happened. Not enough force was added to the spoon in order for it to properly move the corresponding spoon into the cup.
2. Add more force and tell me what happens.

- a. Because they are second graders they will end up adding more spoons. The entire objective is to have the first spoon flip into the cup by added force on the second spoon.
3. Move your hand faster as you hit the second spoon, what happened?

Reward the students who were able to get the spoons into the cups with a prize.

Closing:

Ask students what they learned and what kind of forces they needed in order to make the spoon travel inside of the spoon. Does the amount of force that they add have an effect on the movement of the spoons?

Modifiable Changes

If I could change anything I would have more round of Tug of War for my students because some students did not get to participate and that really bothered them. I would also bring a prize for each and every student. At this tender age a lot of students don't like to be excluded from prizes of any sort and they want to be loved equally.