

Materials (one set for each team)

- Piece of paper
- Small piece of tape
- Lightweight book
- Bowl
- Spoon
- 1 cup cornstarch
- ½ cup water
- Full packet Pop Rocks
- 12-20 oz. bottle of cola
- Balloon
- Penny
- Tennis Ball
- 1 roll Mentos candy
- 1-2 liter diet cola
- 1 5"x5" piece of paper
- Tape
- Index Card

Gather supplies in advance and hand out as each team needs for each myth. Set up the room so each team has working space.

Opening:

- Split into 4 teams and come up with a team name.
- The entire group (all 4 teams) will be given a guessing sheet for each myth. When guesses have been turned in, supplies and procedure sheets will be given out.
- Conduct each myth experiment.
- When all groups are done, points will be awarded to the teams with the correct truth/myth guesses.
- If we are required to leave the room to test a myth, wait until everyone is ready. We come and go as a group.
- When we are finished, the members of the winning team will get prizes!!!

Mythbuster #1 : Paper can support a book.

- Each team must write their answer on a piece of paper and turn it in. (Truth or Myth)
- Each team is given one piece of paper, one small piece of tape, one light weight book, and 5 minutes to prove their theory.
- Award 1 point to each team that is correct.
- Correct answer – truth. Fold paper accordion style and a book will rest on it, or roll it into a tube using the tape.

Mythbuster #2 : A substance can be a liquid and a solid at the same time.

- Each team must write their answer on a piece of paper and turn it in. (Truth or Myth)
- Each team is given a bowl, a spoon, a cup of cornstarch, and ½ cup water.
- The teams will mix the water and cornstarch for 2-3 minutes.
- Award 1 point to each team that is correct.
- Correct answer – truth. There are 3 types of matter: liquid, solid, and gas. The cornstarch and water create what's called a suspension, where the mixture feels solid because the molecules line up, but looks and acts like a liquid because the molecules relax.

Mythbuster #3 : Pop Rocks and Cola will make your stomach explode.

- Each team must write their answer on a piece of paper and turn it in. (Truth or Myth)
- Each team is given a full packet of Pop Rocks, a 12-20 oz. bottle of soda, and a balloon.
 - Pour a full packet of Pop Rocks into a balloon.
 - Keeping the candy in the bottom of the balloon and pinch it off with your fingers. Put the end of the balloon around the mouth of the bottle being careful not to let the Pop Rocks fall.
 - With the balloon securely attached, lift the other end so the candy falls into the soda. Watch to see how much gas goes into the balloon.
- Award 1 point to each team that is correct.
- Correct answer: myth. CO₂ releases when the Pop Rocks pop but not enough to be a lethal combination. (Watch Mythbusters video on YouTube.)

Mythbuster #4 : If you drop 2 objects of different weights from the same height, the heavier object will hit the ground first.

- Each team must write their answer on a piece of paper and turn it in. (Truth or Myth)
- Each team is given a penny and a tennis ball.
 - Drop the objects from the height of the table in the meeting room.
 - Drop the objects from over the atrium.
- Award 1 point to each team that is correct.
- Correct answer: myth. Gravity accelerates both items equally and they hit the ground at the same time. Any two objects will do this, a brick and a Buick, a flower and a fish, a cumquat and a cow!

Mythbuster #5 : Mentos and Diet Cola will form a geyser.

- Each team must write their answer on a piece of paper and turn it in. (Truth or Myth)
- Each team is given 1 roll of Mentos candy, 1-2 liter of diet soda, 1-5” x 5” piece of paper, 1 roll of scotch tape, 1 index card.
 - The goal is to add several Mentos to the bottle at once. To do this, roll up a piece of paper so that the opening will fit in the bottle and make it tall enough that you can stack several Mentos. Secure with tape.
 - Open the soda. Place your index card over the bottle. Put one end of the paper cylinder on the card and line it up so that when you remove the index card the cylinder will be over the mouth of the bottle.
 - Add Mentos to cylinder. Slide card out and let Mentos drop into the bottle.
 - Run!
- Award 1 point to each team that is correct.
- Correct answer – truth. The combination of potassium benzoate, aspartame, and caffeine in the soda with the gum Arabic in the candy causes a release of CO₂.