



THANK YOU!

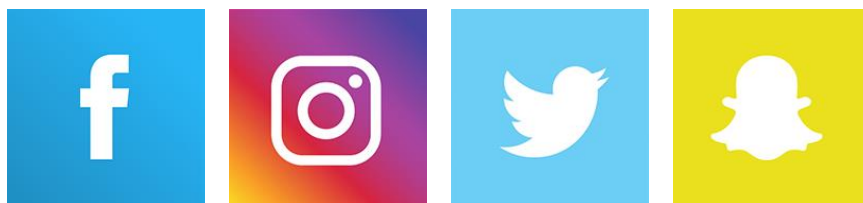
Thank you for having Street Science at your school and giving us the chance to help convince your students that learning about science is absolutely AWESOME!

We hope that both you and the students enjoyed the incursion and feel that it has helped to improve engagement and understanding of your science curriculum.

We value any feedback that you are able to provide in order to improve the service we offer. As such, we will be in touch via email to collate your thoughts on the incursion, and make it easy for you to re-book for next time. Please consider having us back twice in the year to help you teach different science units.

If you loved your Street Science visit, please also jump online to review us on social media. Let's share the love and inspire others to get involved with Queensland's premier science production! Finally, our website and facebook page are loaded with great teaching ideas, activities to use in the classroom, and ways that you can further develop your own skillset in teaching science. Check it out when you get a chance!

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Try this experiment in the classroom...

Pom Pom Popper

Materials:

- 2 soft plastic cups
- A 30cm round balloon
- Tape (any type will do!)
- Scissors
- A small pom-pom, cotton-ball or scrunched up ball of paper/aluminium foil

Method:

Step 1: Cut the base carefully out of each cup.

Step 2: Cut off the nozzle of the balloon and throw away. Stretch the bulb of the balloon around the mouth of one cup so that it is taught and there are no dimples on the flat surface. Fasten the balloon in position with masking tape. *This step is tricky! It may help to have another person hold the cup while you stretch the balloon.*

Step 3: Tape the two cups together base-to-base to make an hourglass shape. Make sure that there are no sticky surfaces poking through gaps on the inside of the Catcher.

STEP 4: Drop your pom-pom or 'ball' into the catcher.

STEP 5: Pinch the middle of the balloon surface, pull it firmly down and then LET GO! The ball should POP into the air!

STEP 6: Catch the ball back in the catcher if you can. Then pull back the balloon for another POP! Experiment with how tightly you pull back on the balloon to change the flight path of your ball.



What is happening? The Science explained.



Transforming and transferring energy: Stretching the balloon stores up energy in the form of potential energy. When you let go, the balloon changes back to its original shape as potential energy is **TRANSFORMED** into kinetic energy. Some of this kinetic energy is **TRANSFERRED** to the 'ball', making it POP out of the catcher.

What happens when the pom-pom is directed into the path of another flow of air (i.e. fan)? Experiment with different sized/weighted pom-poms to see if the energy transferred into the pom-pom affects the distance travelled.

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