

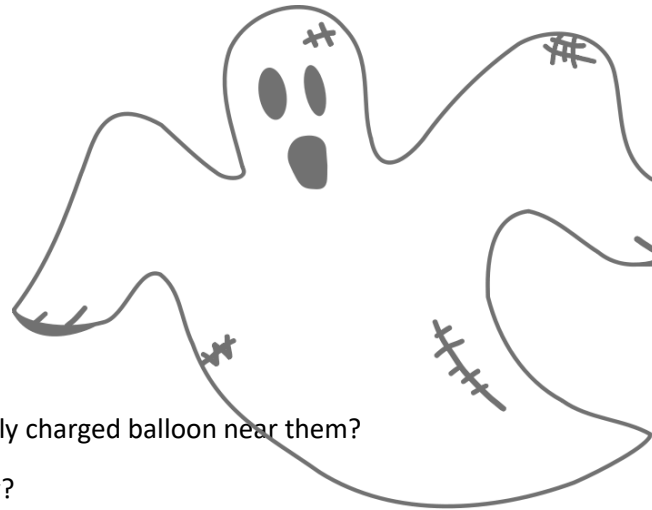
# Dancing Ghosts Experiment!

You may have seen static electricity when you shuffle your feet on the carpet and then accidentally zap someone!

Everything is made of atoms that have positive, neutral and negative electric charges. Static electricity, or negative charge, happens when you rub a balloon on your hair or jumper and you make the balloon negatively charged. The balloon is now attracted to neutrally charged objects – attracting their positive charge to the surface. Static electricity shows that opposites can attract – just like magnets!

## Equipment:

- Tissues
- Coloured marker
- Scissors (You may need an adult to help!)
- Balloons
- Scary ghost noises (optional).



**Question:** What will happen to my ghosts when I put a statically charged balloon near them?

**Research:** What do I know about balloons and static electricity?

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**What do you think will happen when we put the balloon near the ghosts after we charge it?**

**My Prediction:**

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## Method:

1. Peel tissue layers apart so the tissue is thin
2. Draw a ghost shape
3. Carefully cut out the ghost, or ask an adult to help.

4. Blow up the balloon and tie shut.
5. Put the balloon near the ghosts – write down what happened below.
6. Charge the balloon by rubbing the balloon on your head once – write down what happened below.
7. Charge the balloon by rubbing the rub the balloon on your head three times– write down what happened below.
8. Charge the balloon by rubbing the rub the balloon on your head ten times– write down what happened below.
9. Tidy up!

**Test!**

**Rate the movement of your ghost from 0 (not moving) to 5 (moving a lot!)**

What action are you doing?	Have not rubbed balloon on my head	Rubbed the balloon once	Rubbed the balloon three times	Rubbed the balloons 10 times
Observations				

**What is happening to the ghosts?**

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**Why do you think the ghosts are moving?**

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**What is happening to the ghosts when you rub the balloon 10 times compared to no times?**

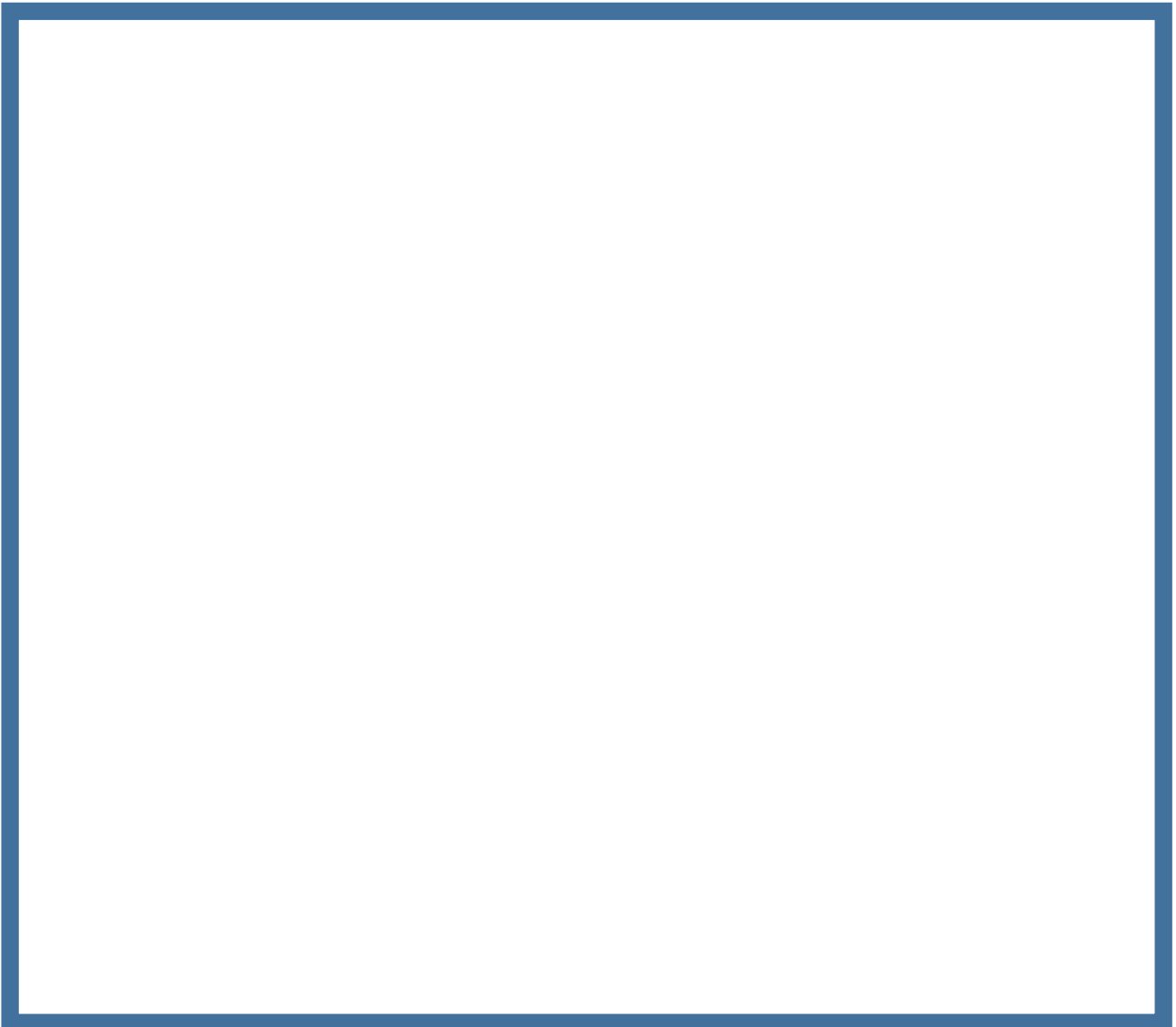
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**Put your drawing/photo**



**Enter Inspiring the ACT's Spooky Science Competition!**

1. *Play Spooky Science Quizling Quiz and record your score!*
2. *Have a go at Inspiring the ACT's Spooky Experiment and take a photo!*
3. *Email [info@inspiringtheact.org.au](mailto:info@inspiringtheact.org.au) with your Quizling score, picture/photo and one sentence on why you like science!*

**Entries are open from the 24<sup>th</sup> of October to the 31<sup>st</sup> of October.**

**Winners of the Spooky Science Competition prize pack to be announced the 1<sup>st</sup> of November.**

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