

## Questacon Science Squad Activity – Solenoid chute

The video for this transcript can be found on the Questacon Science Squad website at:

<http://sciencesquad.questacon.edu.au/activities>

### Transcription from video:

*(Sound of bubbles popping)*

David: How's it going? I'm David from the Questacon Science Squad and this is my solenoid chute. Check out what it does.

*(Camera pans down to the solenoid chute)*

Now, if you want to find out how to make one of those solenoid chutes have a look at what I've got here.

You need:

- a straw
- a paperclip
- some scissors
- some blu-tac if you want to stick your battery down and
- about one metre of copper wire

Now take your copper wire and straighten it out and leaving about 15cm start wrapping it around your straw, just like this.

*(David straightens out the wire then starts wrapping it around the straw)*

Now, this part of the demonstration can sometimes take a little bit of time, but it is worth it once you're finished.

Now once you've wrapped it all around the end and you've got another 15cm bit hanging off the other end, it should end up looking something a bit like this.

*(David puts straw to the side and shows a completed example)*

You can cut off the end of the straw there as well.

*(David points to the end of the straw)*

Now, after you've done that, you take your battery and you get one end of the copper wire and touch it to one end of the double A battery, and the, oops, bring out my tooth, ah, my paperclip there, and the other end of the copper wire and touch them to the ends of the battery.

*(David places each end of the wire to each end of the battery)*

And it didn't go through, try again, there we go.



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*(David pushes paper clip back into straw and tries again)*

There we go! Come on little paperclip!

*(Camera pans back to David).*

If you want to find out more about my solenoid chute you can head on down to the Questacon Science Squad website. I'll see you next time.