# Modelling ion bombardment

***Education in Chemistry***March 2018[rsc.li/EiC218-thehuntison](http://rsc.li/EiC218-thehuntison)

**This activity accompanies the above article ‘The hunt is on’.**

**Method**

* Set up the plastic cup on a bench at one end of the lab.
* Your ping-ping ball thrower stands at the other end of the lab (use a metre ruler or tape to measure the distance between the thrower and the target).
* The aim is to throw the ping-pong ball into the plastic cup. If this is achieved then bingo! You have achieved fusion and a new element! Record this in the tally chart.
* If the ball bounces out, the cup is knocked over by the ball or the thrower misses you are unsuccessful. Record this in the tally.
* At the end of the session, work out the ratio of successful hits compared to misses, fission and repulsion.

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| **Result** | **Model for** | **Tally** |
| **Hit – stays in cup** | **Successful** |  |
| **Hit – bounces out** | **Repulsion** |  |
| **Cup knocked over** | **Fission** |  |
| **Miss** | **Miss** |  |