## LEGO radioactive decay and half-life

An activity to model radioactive decay using LEGO bricks.

- 1. Throw a number of LEGO bricks in a tray and remove all those that land 'studs up' (or 'studs down' or 'sideways').
- 2. These can be stacked together to show the activity (decays per throw).
- 3. Throw the remaining bricks and again remove the 'decayed' nuclei and stack these into a second stack.
- 4. Place this second stack next to the first to build your activity vs. throws bar chart.
- 5. Use the graph paper grid (attached) if you want a permanent record for students to keep.
- 6. By changing the conditions for decay, you can get different decay curves.



