

Create your own telluric screw

Instructions – download the template from rsc.li/2P8PCb1



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- 1. The numbers shown are what we now call relative atomic masses. Write the symbols of the first 20 elements (H to Ca) under the appropriate relative atomic mass.
- 2. Cut out the rows, including the grey tabs. Stick the three rows together using tabs 1 and 2 to form one long row from relative atomic mass 1 to relative atomic mass 40.
- 3. Gently crease along the line between each relative atomic mass.
- 4. Curl the strip to create a helix with a circumference of 16 atomic mass units, ie the element with a relative atomic mass of 17 lies below the element with a relative atomic mass of 1. Use tabs 3 and 4 to secure the helix in place.
- 5. What do you notice about the elements directly below each other on the helix? Are there any elements that don't fit the pattern?

Extension activity: think about what circumference (in atomic mass units) future turns of the helix will need in order for similar elements to lie beneath each other.