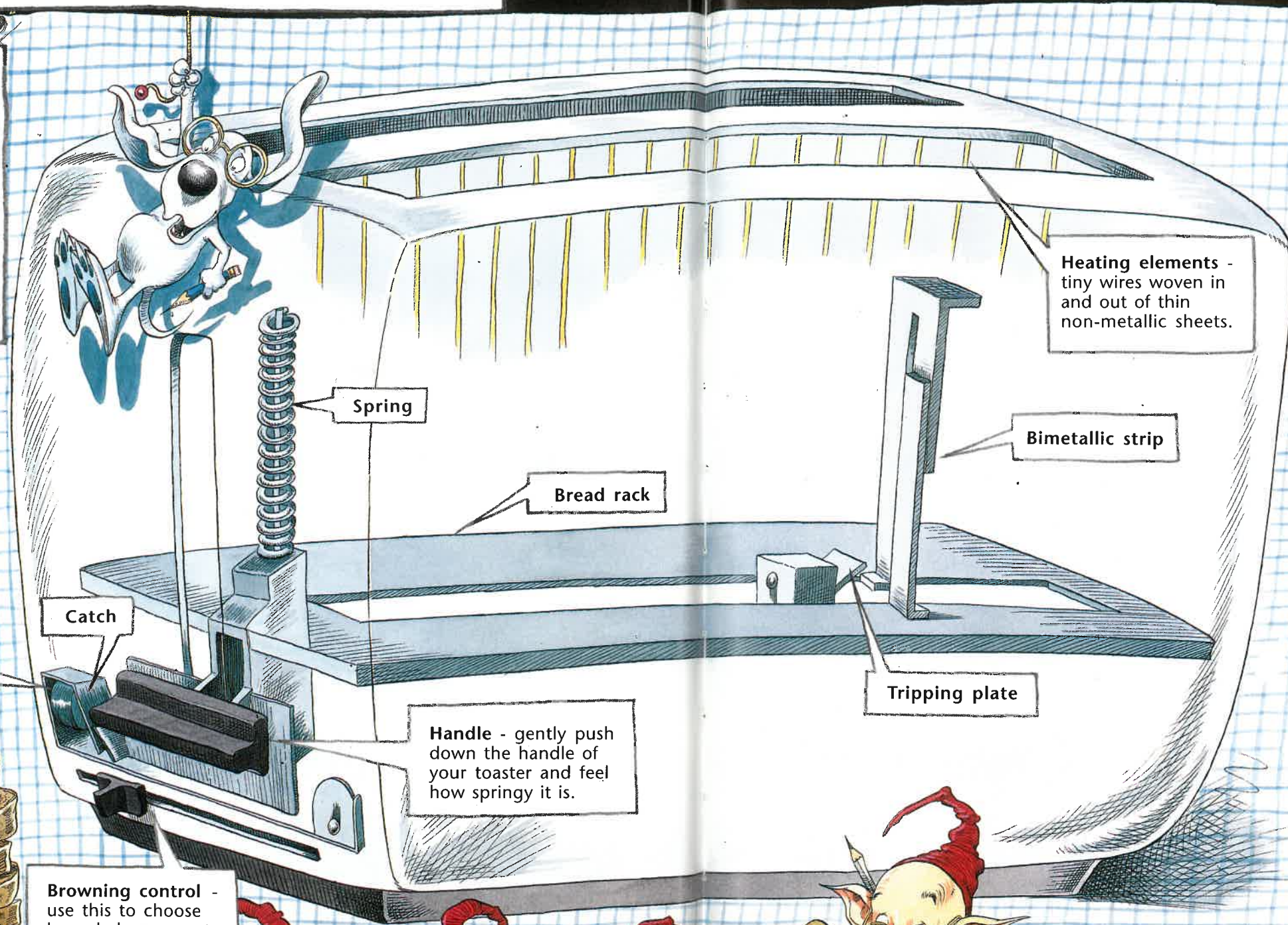


# Dudley showed me how a toaster works...

1. A toaster needs electricity to work... so... check it's plugged in and that the power is switched on. Pop a slice of bread (or 2 if you're hungry!) into the slots in the top. The bread nestles inside the toaster on a rack that is attached to a spring.

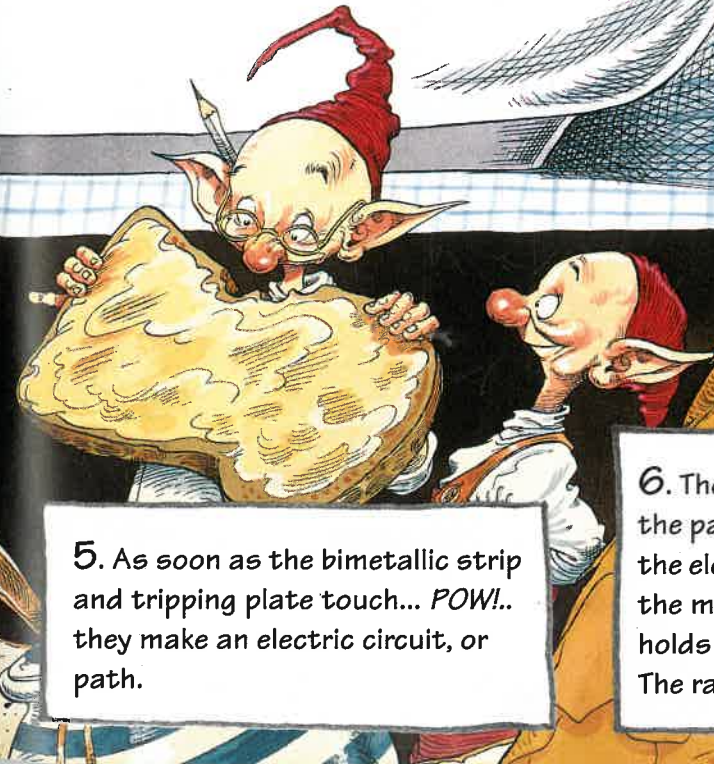


2. ZZZPPP! When you pull the toaster handle down, the spring s-t-r-e-t-c-h-e-s and the rack moves down. CLICK! The rack is now locked in position with a small catch.



3. The electricity zooms along tiny wires woven together, called heating elements, either side of the bread. They are so hot that they start to glow, heating up the soft bread and turning it into toast.

4. When the elements heat up, so does a strip inside the toaster. As it is made of two different metals, it's called a bimetallic strip. When it gets hot, one of the metals expands more than the other. This makes it bend so it touches the tripping plate.



5. As soon as the bimetallic strip and tripping plate touch... POW!.. they make an electric circuit, or path.

6. Then the electricity surges along the path into an electromagnet. As the electric current passes through the magnet, it trips the catch that holds down the rack, then... BOING!.. The rack springs up and...

Heating elements - tiny wires woven in and out of thin non-metallic sheets.

Bimetallic strip

Bread rack

Tripping plate

Handle - gently push down the handle of your toaster and feel how springy it is.

Browning control - use this to choose how dark you want your toast.

Catch

Electromagnet

**POP!**  
Out comes tasty toast. Pass the marmalade, Dudley...

