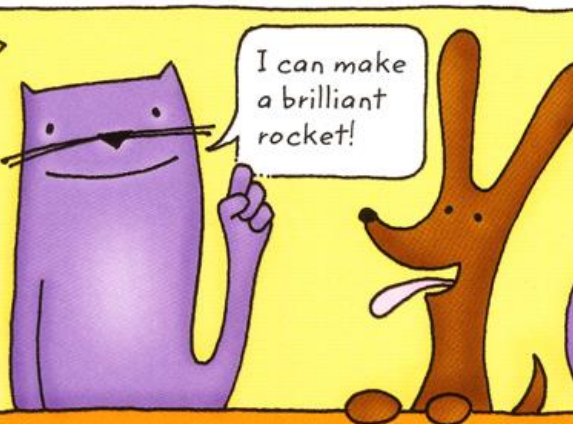


DO ~~NOT~~ TRY THIS AT HOME

Issue #9

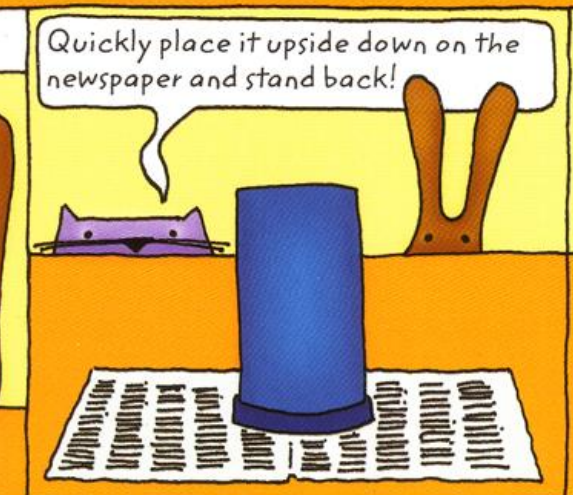
Featuring: **Marvin and Milo**

What you need: •an Alka-Seltzer tablet
•an empty film canister
•an old newspaper
•water



Put the lid on...

...lightly shake the canister.



DO ~~NOT~~ TRY THIS AT HOME

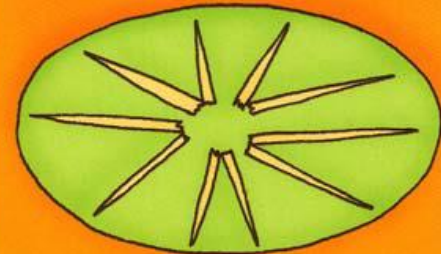
#10

Featuring:
Marvin and Milo

What you need: • five wooden toothpicks
• a small sponge • a plate • a little water

Snap the toothpicks in half but don't break them fully.

Arrange the toothpicks on the plate like this...



Carefully squeeze a drop of water into the middle.



Make sure it touches the end of each toothpick.

Did you see them move?

Just like synchronized swimmers!



The water makes the wood expand, the broken ends press against each other and the toothpick opens out. The same thing happens to doors when it's humid—they swell up and get jammed.



DO ~~NOT~~ TRY THIS AT HOME

#11

Featuring:
Marvin
and
Milo

What you need: • a stick (1m long) • a lump of clay

Push a lump of clay about the size
of your fist on to the stick...

20cm

...20cm from
the end.

With the clay-end closest to your
hand, try balancing the stick.

It's much easier!

The stick rotates
slower when the clay
is at the top, so
there's more time to
adjust and keep it
balanced.

The further the mass
is from the centre of
rotation (your hand),
the slower it rotates.

Now turn the stick upside down
and try balancing it again.

DO ~~NOT~~ TRY THIS AT HOME

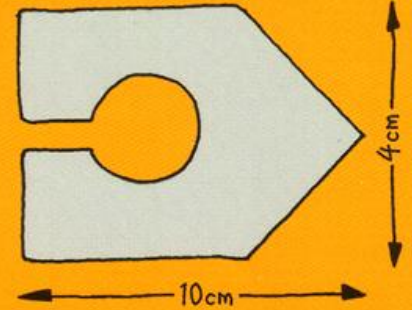
#12

Featuring:
**Marvin
and
Milo**

What you need: • piece of foil • scissors
• washing-up liquid • sink or bath

Ahoy there me land lubbers! Today we are going to race my metal boat against Milo's ship.

To make a boat like mine, cut this shape...



... out of the foil.

Gently place your boat into a sink full of clean water.

Carefully place a drop of washing-up liquid into the boat's hole.

IT MOVES!

Water molecules are attracted to each other, creating "surface tension". The soap disrupts the surface behind the boat but the molecules in front are still pulling together,

so the boat is pulled forward.