

**DO TRY THIS AT HOME**

Featuring: **Marvin and Milo**

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**What you need:** • A bunch of about 9 keys • A pencil  
• A large paperclip or washer • 1m of string

Want to see how I can catch these keys with no hands?

Tie a bunch of keys to one end of the string and the paperclip to the other.

Place the string over the pencil so that the keys hang down a couple of centimetres. Hold the paperclip horizontally out to the other side.

Let go of the paperclip.

It winds around the pencil and stops the keys hitting the floor!

The keys pull the paperclip towards the pencil, but gravity is also pulling it downwards so it moves in a circle. As the paperclip gets closer to the pencil, its angular velocity increases, and it wraps around the pencil.

Vic Le Billon