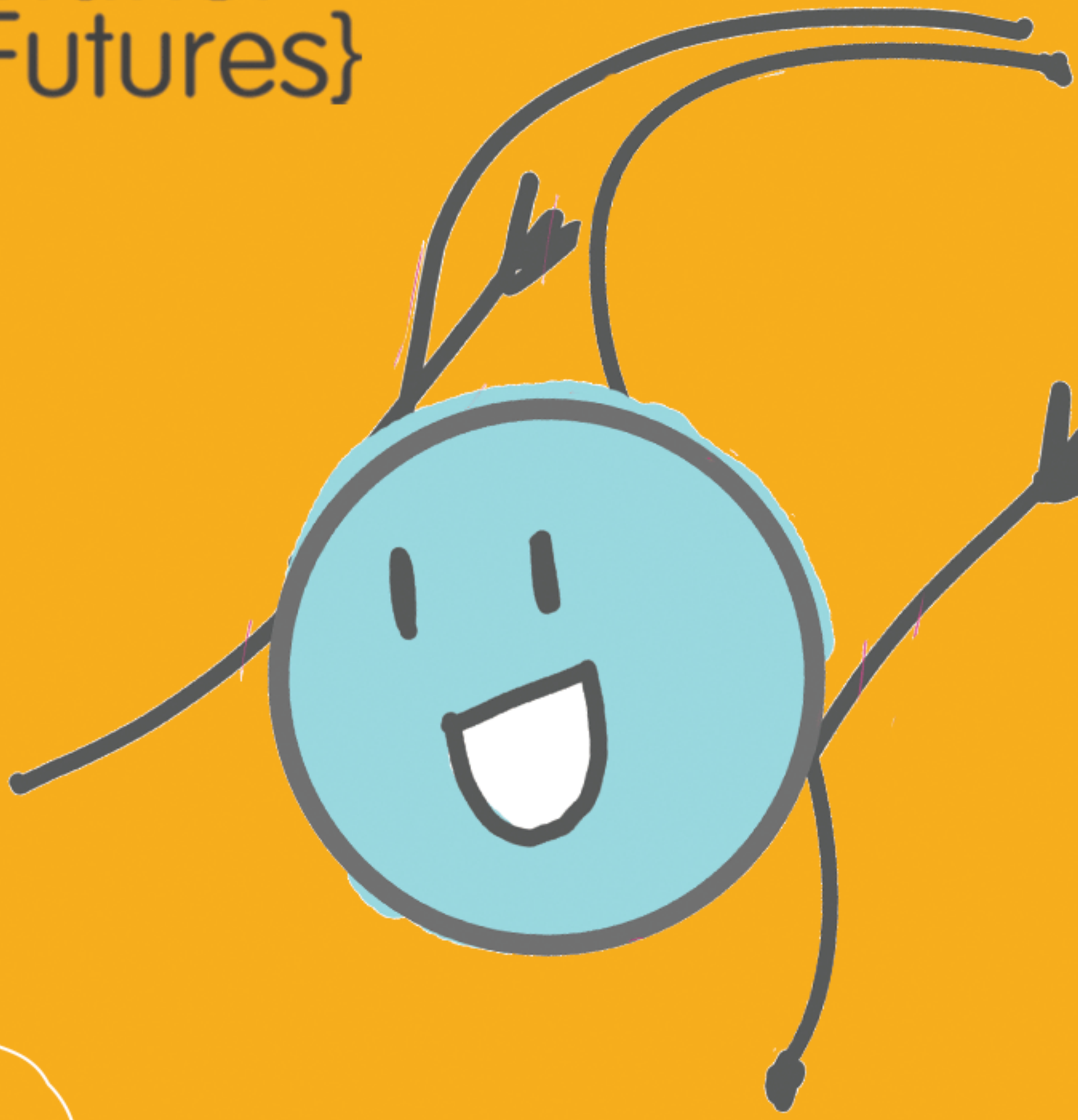
Maker
{Futures}



Marble Run Challenge

What you need:

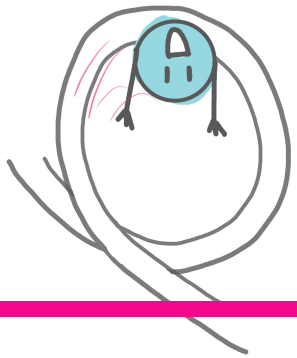
- A marble
- Cardboard
- Sellotape
- Scissors
- A timer
- Other craft materials

Maker{Challenge}
Marble Run

Age: 6-100 yrs
Risk: Low

{Challenge}

Can you design and build a marble run that takes 60 seconds for the marble to roll from the top to the bottom?



What you need

- A marble
- Cardboard
- Sellotape
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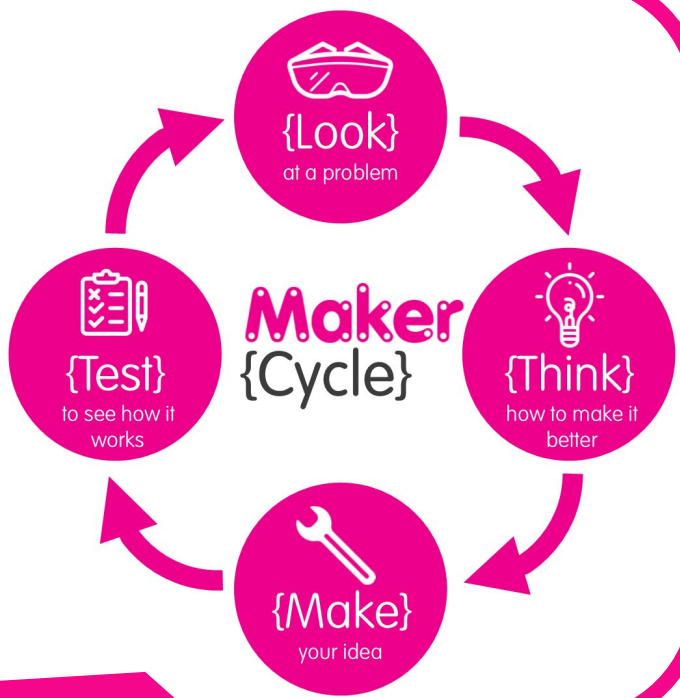
- Other craft materials

Use the Maker{Cycle} to create like a Maker:

- This challenge is all about making and testing. **Make** a simple marble run and **test** it out with a timer.
- **Look** at where your marble is rolling fast or slow and tweak your design to get you closer to that 60 second target.
- **Think** about what is affecting the speed of your marble e.g. the steepness of the slope, the number of turns the marble takes or the texture of the surface.
- Keep **making** and **testing** until you hit the 60 second target!



{Top tip}

Your marble will roll faster on smoother surfaces as there is lass friction. Try roughing up the surface of the cardboard to slow your marble down.

The University Of Sheffield.

Maker{Futures}
www.makerfutures.org