

## SLIGO ENGINEERING FAIR 2022

### Fire the Inventor's Mechanical Tinkering Hang Out

5-6 March 2022, 2pm - 3.30pm each session

To get an idea of the kind of machines we'll be making and the sort of materials required, do take a look at this [video](#) and the list below.



#### Useful Equipment/Tools and Materials

You don't need everything on the list, they are suggestions of what can be useful. What you make and how, will depend on the resources you can access for each session. It's engineering by improvisation, ingenuity and imagination!

Nevertheless, there are a things that are needed to get you started, which I've indicated below. But even if you can't lay your hands on everything, you'll still be able to get making something (or you can just watch, ask questions, and get ideas and inspiration for making later in your own time).

#### EQUIPMENT/TOOLS

##### *Required*

Craft knife  
Glue - general purpose craft glue, sticky tape  
Pencil, ruler, compass for drawing circles  
Pointy tool for piercing holes, like a compass point or tweezers.  
Scissors

##### *Useful*

Glue gun  
Small pliers  
Wire cutters.

#### MATERIALS

##### *Required*

Barbecue sticks and/or chopsticks  
Card/cardboard  
Containers - such as small boxes/packets, mini-yogurt or pill pot, Tetrapacks  
Cork and/or packing foam (the harder sort)  
Paper clips (large) or wire of similar size  
Straws (of a size that a barbecue stick or chopstick can snugly rotate in)

##### *Useful*

Clothes pegs (wooden ones preferably)  
Cotton reels  
Coloured felt-tips or crayons  
Lids from jars and plastic milk bottles  
Paper  
Paper fasteners  
Pipe cleaners  
Small toy parts/curious objects which could be attached to the mechanisms.  
Tins