

A decorative graphic on the left side of the page, consisting of a network of light blue lines and circles that resemble a circuit board or a data network. The lines are of varying thickness and connect to small circles at various points, creating a complex, branching structure.

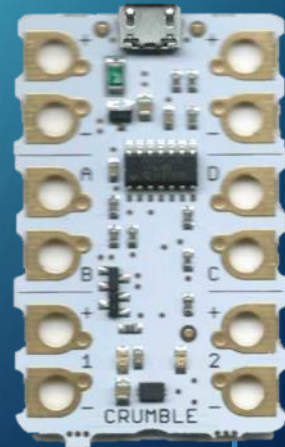
# DESIGN MAKE & PROGRAM A VEHICLE

BUGGY DESIGN 3

CODE-IT.CO.UK/CB PROJECT DESIGN BY PHIL BAGGE

# MATERIALS AVAILABLE

- 8mm Wood Spar
- 4mm Wood Dowelling
- Cardboard Triangles
- 2 geared Motors and housings
- Metal ball caster for easy turning
- Crumble control board
- Battery holder (3 batteries)
- Wooden wheels Rubber washers
- Crocodile Clips



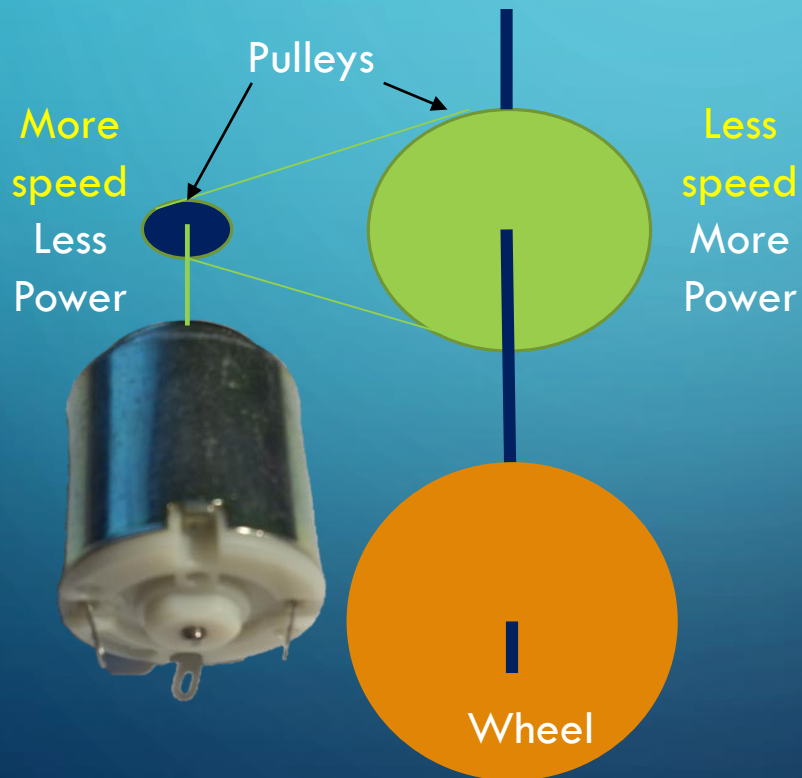
# THINGS TO CONSIDER

- Your vehicle must hold securely your battery pack and crumble board
- Your motor must drive right and left wheel axles independently
- **No** glue must be used on any of the electrics
- You can't start until you have an A4 carefully drawn plan with lengths clearly marked in cm or mm
- One end of your buggy needs to rest on a metal ball caster



# THINGS TO CONSIDER

- Your motor must drive your axle
- You will need a gear to convert speed into power to move the axle



# THINGS TO CONSIDER

- Triangles are a great way of strengthening joints

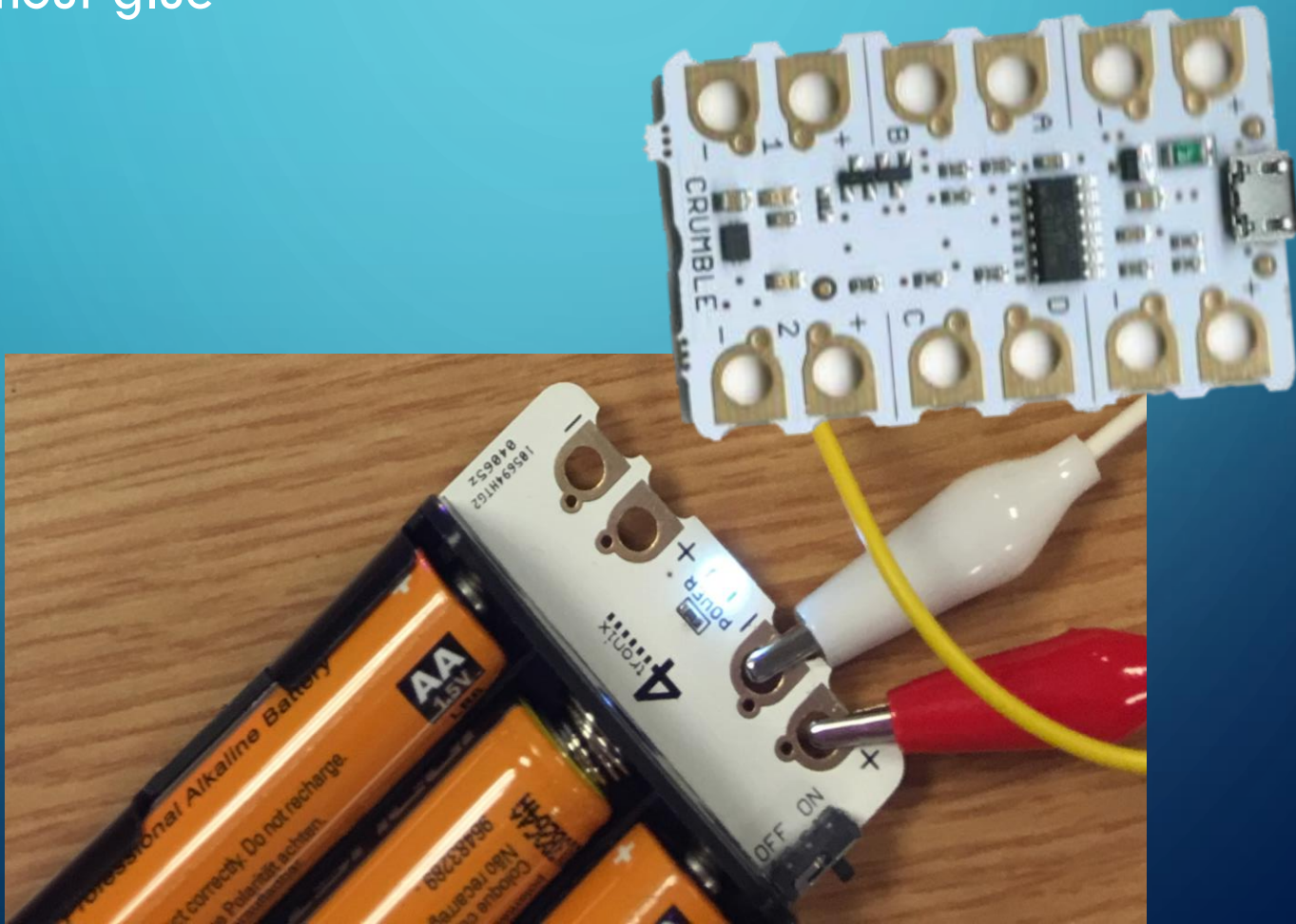


# THINGS TO CONSIDER

- How will you attach your geared motor to the frame?
- How will you attach your ball caster to the frame?

# THINGS TO CONSIDER

- How will you secure your battery pack and crumble without glue



# THINGS TO CONSIDER

- Your design must be checked and approved before you can start making
- Mark in lengths in mm or cm
- Draw from more than one view (example above and side)