DESIGN MAKE & PROGRAM A VEHICLE

BUGGY DESIGN 2

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

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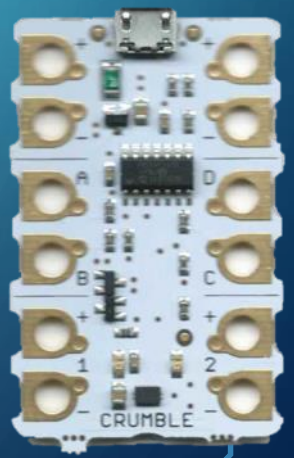
MATERIALS AVAILABLE

- 8mm Wood Spar
- 4mm Wood Dowelling
- Cardboard Triangles
- 2 Motors
- Elastic bands
- Pulley wheels (small on motor & large/medium on axle)
- Crumble control board
- Battery holder (3 batteries)
- Wooden wheels & small metal ball caster
- Rubber washers
- Crocodile Clips

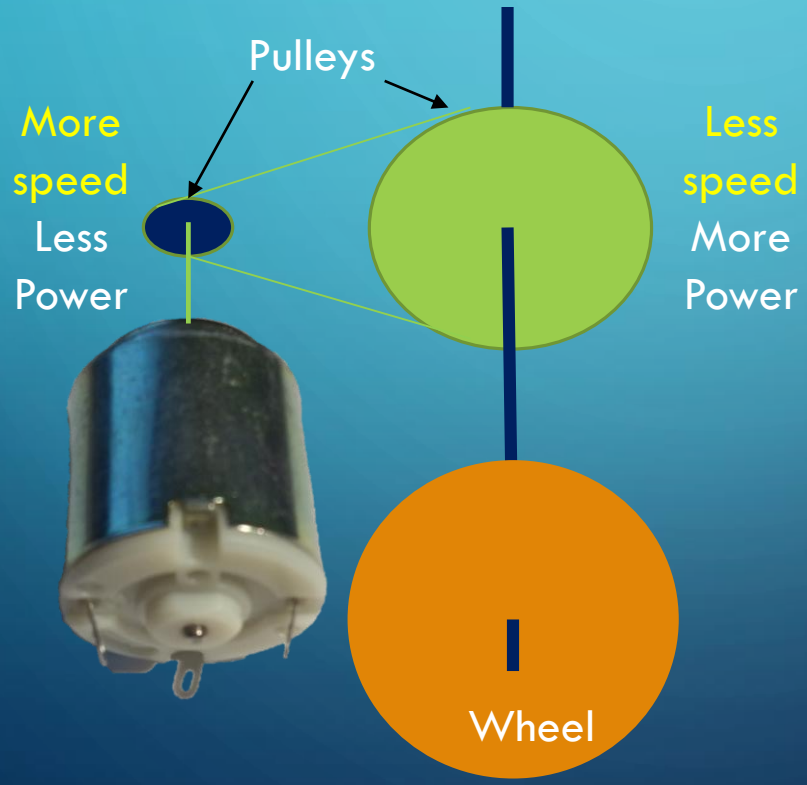


THINGS TO CONSIDER

- Your vehicle must hold securely your battery pack and crumble board
- Your motor must drive right and left wheel axles independently
- You will need a gear to convert speed into power to move the axles
- **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

THINGS TO CONSIDER

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

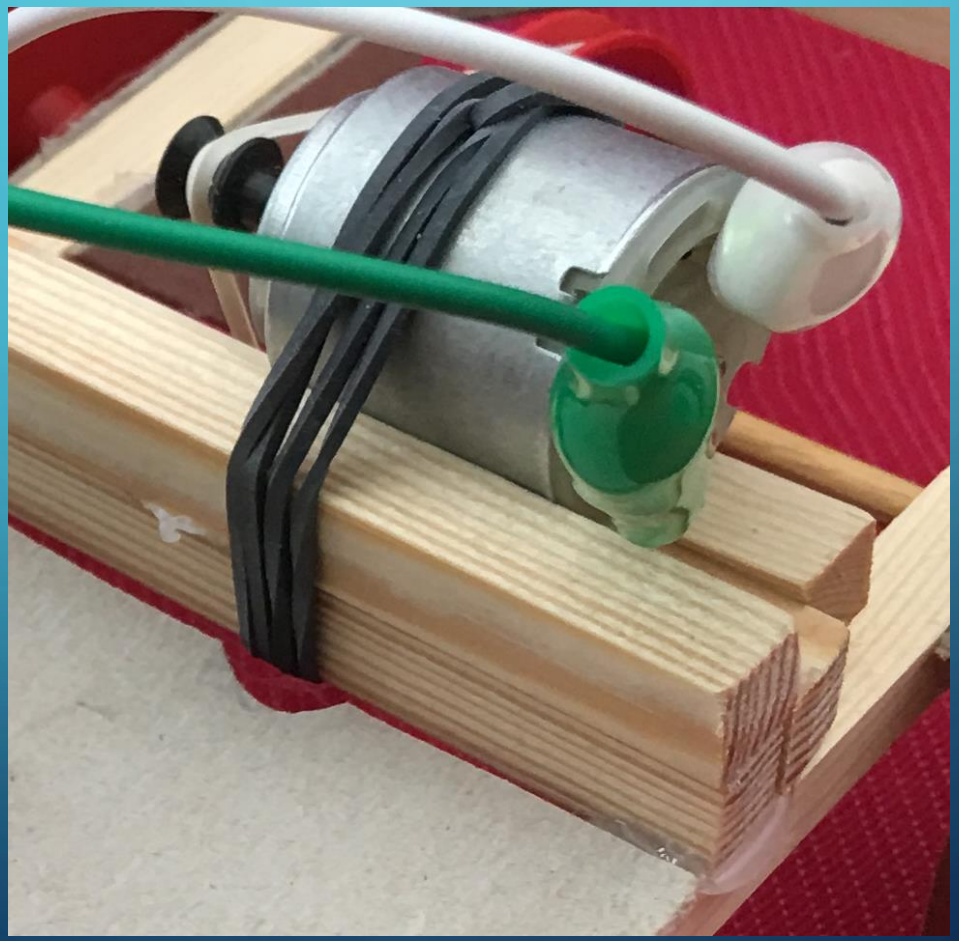


THINGS TO CONSIDER

- Triangles are a great way of strengthening joins

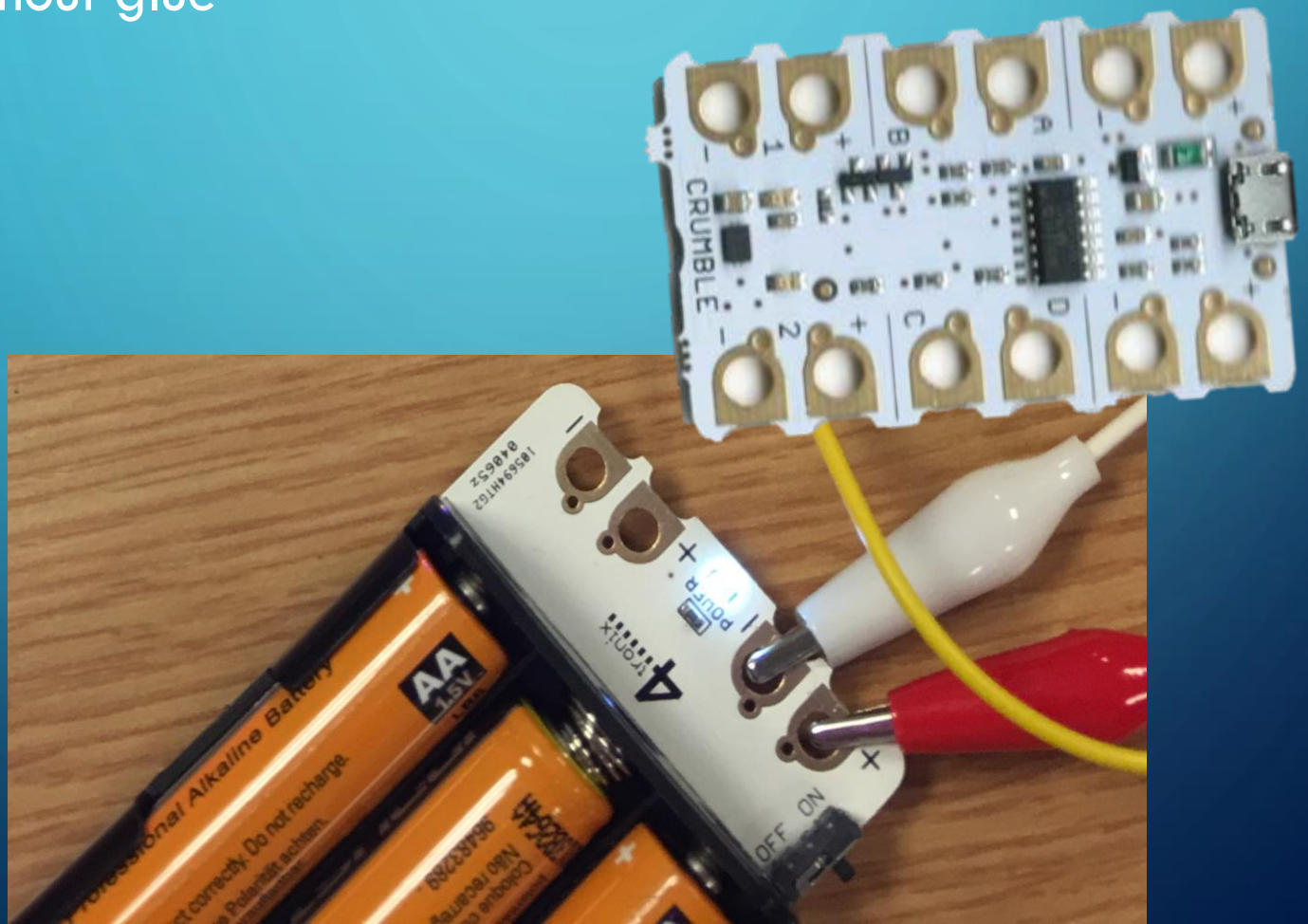
THINGS TO CONSIDER

- How will you attach your motor to the frame?



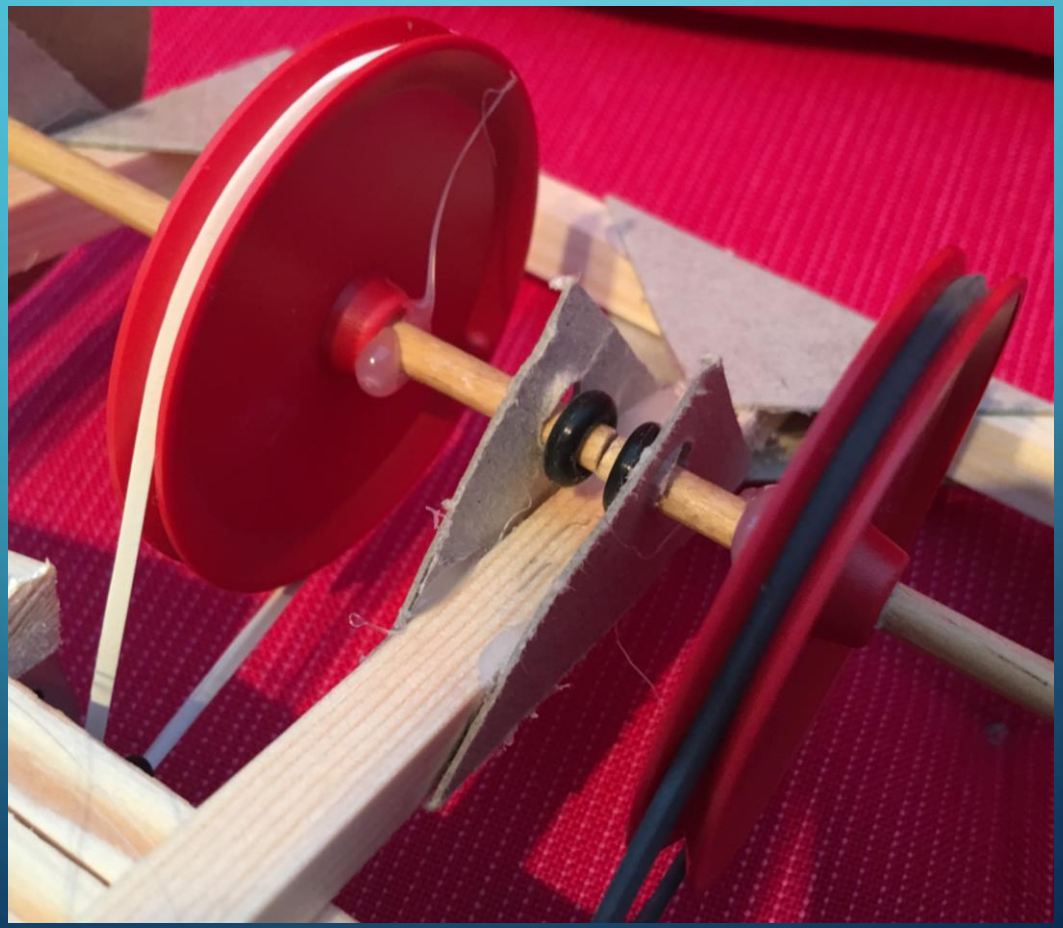
THINGS TO CONSIDER

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



THINGS TO CONSIDER

- How will you independently drive right and left wheels?



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)

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