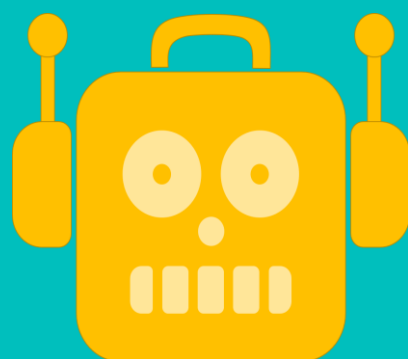
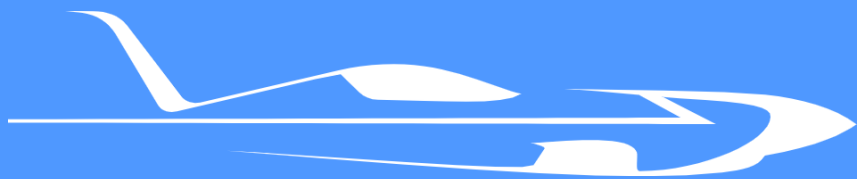


# SPIRIT OF INNOVATION



**STEAM  
RESOURCES**

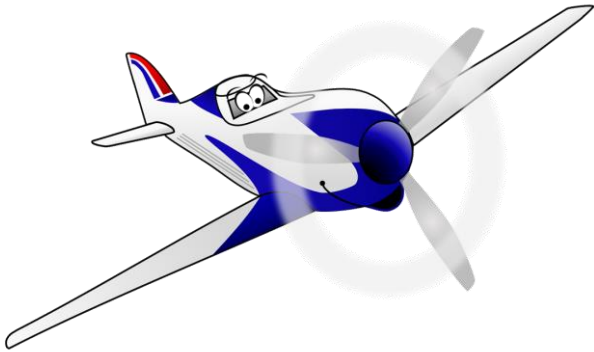


# EYFS

**STEAM - Challenge Cards**



# EYFS STEAM Challenge Cards

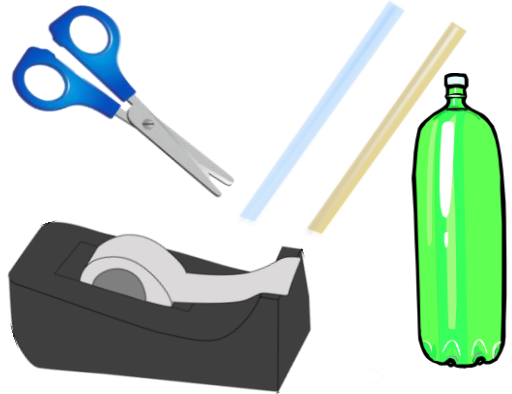


PIONEERS OF POWER

## EYFS STEAM Challenge Card

In small groups; using junk modelling or construction. Make an aeroplane and electric charge point?

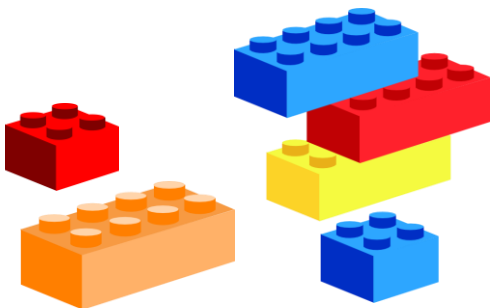
Can you add the land and sky?



## EYFS STEAM Challenge Card

Make a duplo®/Lego® maze. Place a ping pong ball at the start, tilt and turn the board to move the ball, see if you can get it to the finish.

How fast can you do it? Can you slow it down by changing the route?



## EYFS STEAM Challenge Card

Make a duplo®/Lego® maze. Place a ping pong ball /small pompom at the start of the track, use a straw to blow the ball around the track.

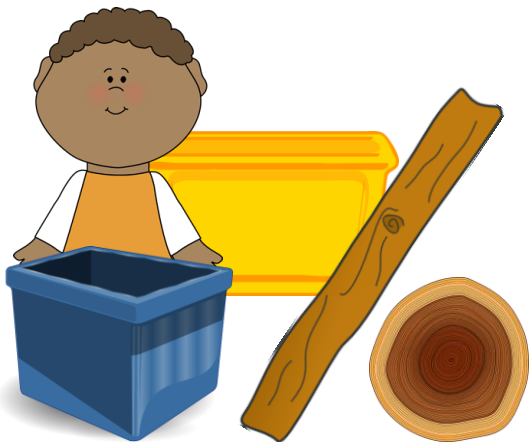


## EYFS STEAM Challenge Card

### Outside Area

Using crates and large building equipment can you build an aeroplane?

Take turns to be the pilot.

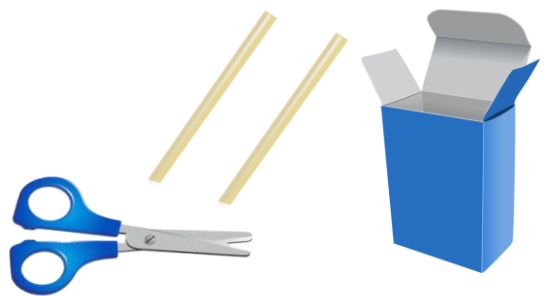


## EYFS STEAM Challenge Card

Use junk modelling materials, or construction can you make an aeroplane?

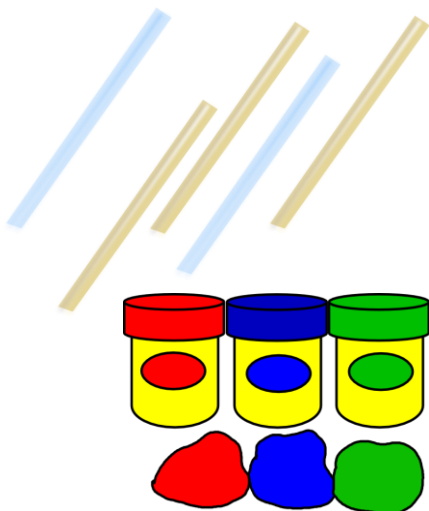
Can you make the propeller move?

Make a name label so you can display it.



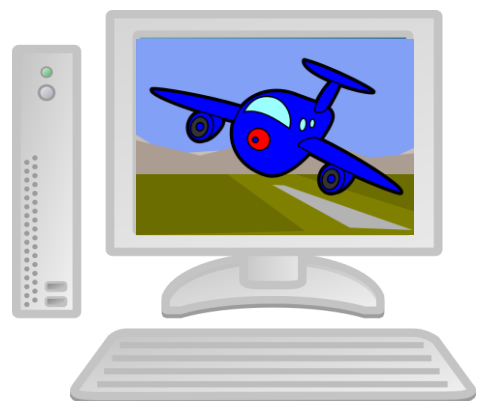
## EYFS STEAM Challenge Card

Can you build a strong structure using straws and plasticine?



## EYFS STEAM Challenge Card

Can you design an aeroplane on the computer/tablet?



## EYFS STEAM Challenge Card

Program the Beebot to go to the power wall to charge, travel down the runway, 'fly' in the sky and then 'land' back on the runway again.

Children/Adult to draw the beebot map.



## EYFS STEAM Challenge Card

Outside Area/Playground

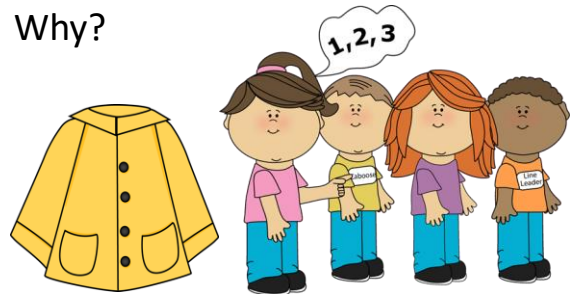
Children/Adult to mark out a runway and sky area with chalk on the playground.

Run with no coat on, then run holding coat like wings/super hero cape.

Which was faster?

How did it feel?

Why?



## EYFS STEAM Challenge Card

Sort materials into groups; children to specify own groups.

What could the Spirit of Innovation Team use each the material for?

Why?

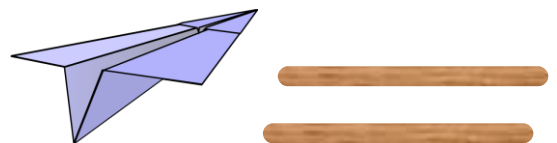


## EYFS STEAM Challenge Card

Outside Area/Playground

Using lolly sticks, and or paper can you make a plane that flies? Go outside and race yours against your friends, whose goes faster? Furthest?

Do you know why it went faster? Further?



## EYFS STEAM Challenge Card

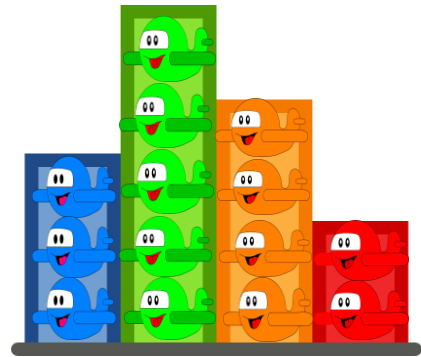
Can you loop the loop or write your name in the clouds?



## EYFS STEAM Challenge Card

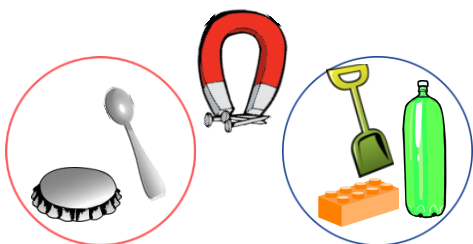
The aeroplane is going to be white and blue. Collect and record your class' favourite colour for an aeroplane.

You could use coloured planes on a pictograph to show your findings.



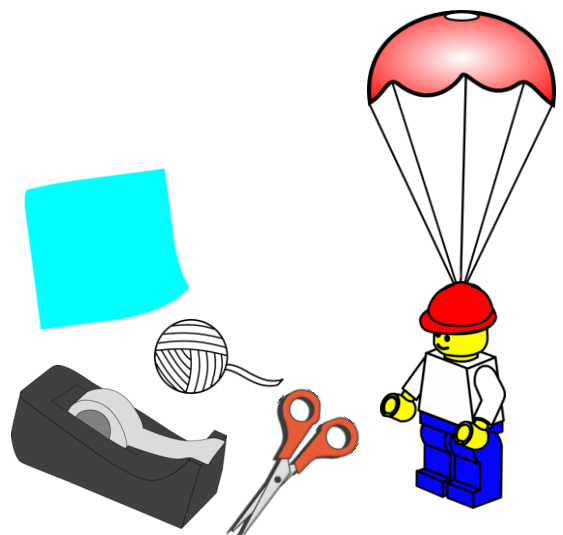
## EYFS STEAM Challenge Card

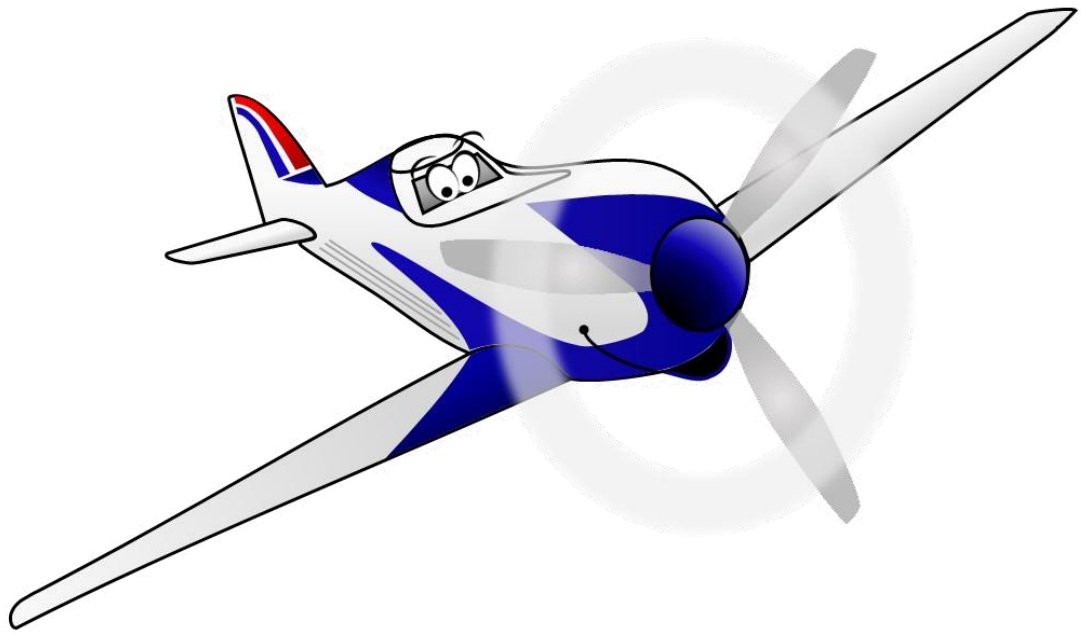
The aeroplane is made from lots of different materials. Some are heavy whereas some are light. Some materials are waterproof. Some are magnetic. Sort the materials in front of you into two groups. Can you sort them a different way?



## EYFS STEAM Challenge Card

Make a parachute to slow down a toy figure when dropped from a height.





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