



Paper Plane Engineer

#310

AGE GROUP



6-12 years

HOW DO I SET UP & PLAY?

Curiosity Spark - How do things fly?

- Use the instructions below (or watch one of the many videos on youtube!) to guide children through the steps of folding a basic paper plane. *When the paper airplane is folded, there is of course a pointed tip. Please remember to ask children not to throw the paper airplane directly at anyone, and especially at faces.*
- Draw a line on the ground and ask everyone to test their planes to see how far they glide. Place a piece of tape with each child's initials on the ground where their plane lands.
- Now begin experimenting by adding weight to the wings with coins or buttons (or whatever you have chosen to provide). Tape 1 to each side of the wing.
- Fly again and mark spaces. Who can fly the furthest by experimenting with the placement of their weights?
- This is a problem-solving activity, so try to stay as uninvolved in the process as possible.

EXTENDING LEARNING SPARKS

- **What else could affect a successful flight?** Where they placed the coins? How many coins they added to the plane? How high they threw the plane? A different paper fold? Different types of paper?
- Provide access to books, websites and videos children can use to investigate and conduct their own experiments with velocity, thrust, lift, drag, speed and other scientific forces to tweak performance.

WHAT MATERIALS DO I NEED?

- A4 size sheets of printer paper
- Crayons, markers, or paint to decorate the paper (optional)
- Masking or washi tape
- Coins, buttons or other small items of various weights
- Tape measure



Building My Language & Literacy Skills



Exploring Simple Math Concepts



Challenging my fine motor muscles



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