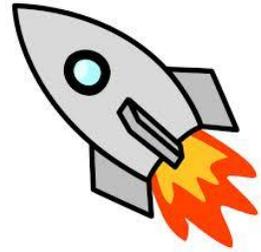




Scientist Name:



Today Science Club are going to be

ROCKET SCIENTISTS!

We are going to make our own rockets & launch them.

Forces:

A force is either a **PUSH** or a **PULL**. You can't see forces but you see their effects, something speeding up, slowing down or changing shape. Common forces include **magnetics, friction, gravity** and **air resistance**, we will look at the last two.

Forces are measured in Newtons (N).

Air resistance slows down moving objects. To travel faster through air things need to be streamlined.

Gravity is a force you may have heard of; it **PULLS** things down to the centre of the Earth. It is why we don't fall off the Earth.



Why do spacemen float on the moon? _____

Air resistance and gravity will act on our rockets. How? _____

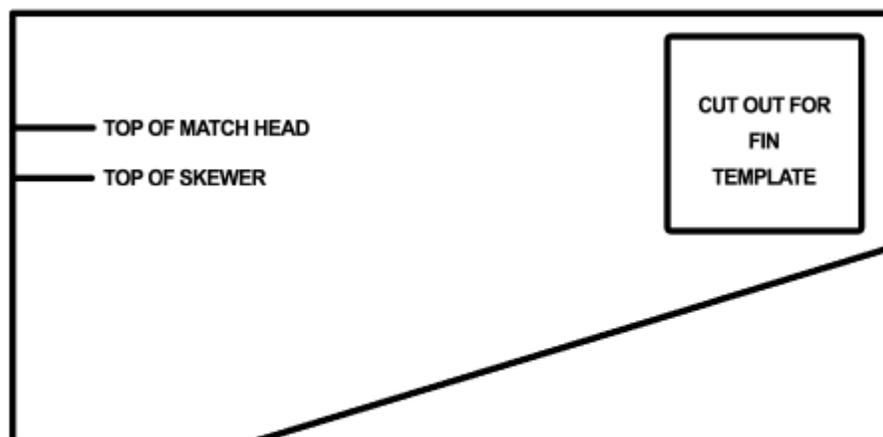
Note to parents: If you want to try this at home, use the templates on this sheet, use foil/bamboo skewers & goto: <http://youtu.be/WFyKgmCF-8>. Any questions please email: HassellScienceClub@gmail.com

BAMBOO SKEWER



From: www.thekingofrandom.com

ALUMINUM FOIL FOR ROCKET BODY



Forces Quiz

1. If you roll a **ball** across the carpet, **which forces** will cause it to **slow down and then stop**?
 - a. The push from your hand and gravity?
 - b. Magnetic pull and upthrust?
 - c. Gravity, friction and air resistance?
 - d. Upthrust and air resistance?
2. Which of the following is **not a force**?
 - a. Electricity
 - b. Gravity
 - c. Upthrust
 - d. Friction
3. Which of these would **not** be a result of **applying force** to a material?
 - a. The material is stretched?
 - b. The material is compressed?
 - c. The material is twisted?
 - d. The material is changed into a new material?
4. Which forces are acting on a child who is going down a slide?
 - a. Gravity, air resistance and friction
 - b. Gravity, air resistance and water resistance
 - c. Gravity, magnetism and friction
 - d. Gravity only
5. Catapults are designed to provide a push which will be stronger than the force of gravity. The object which is being catapulted should be aerodynamic to minimise which force?
 - a. Air resistance
 - b. Upthrust
 - c. Magnetism
 - d. All of the above