



Try This **EXPERIMENT** @ Home!

# Make your own Rocket Fuel!

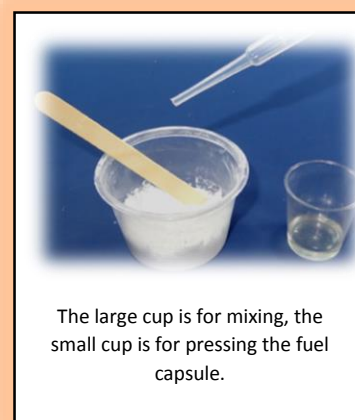
You will need:

- 2tsp of Bicarb Soda (sodium bicarbonate)
- 1 tsp of Citric Acid
- 1tsp of Corn Flour
- Cooking Oil
- Water
- 1 large cup
- 2 small cups (30ml)
- Pipette / eye dropper
- Stirring stick / small spoon



**STEP 1:** Carefully measure the following substances into a plastic cup. Wear safety glasses. (Citric Acid is a common, household grade chemical. If it causes irritation on the skin clean the affected area with soapy water.)

- o **2 flat teaspoons of Bicarb Soda**
- o **1 flat teaspoon of Citric Acid**
- o **1 flat teaspoon of Corn Flour**



The large cup is for mixing, the small cup is for pressing the fuel capsule.

**Step 2:** Using the stirring stick, mix these substances together **REALLY WELL**. The key to quality rocket fuel is mixing this continuously for at least 3mins!

**Step 3:** Carefully transfer 30 drops of cooking oil into your mixture. Use a pipette or eye dropper! If you wish to colour your fuel, add 2 drops of food dye as well. You may want to ask an adult for assistance to do this if needed.

**Step 4:** Add 10 drops of water to the mixture and **QUICKLY** stir to stop the bubbling. Continue stirring the oil and water through for another 1-2 mins or until the mixture feels like soft wet sand.

**Step 5:** Carefully transfer about half of the mixture into the small plastic cup. Compress the mixture with a second small cup or spoon / flat object, producing a hard, compressed fuel capsule.

**Step 6:** Slowly tip the cup upside down over a piece of paper and gently tap the bottom to dislodge the capsule. Leave this to dry for up to an hour. Break the capsule into smaller pieces to launch your rocket. **Each Fuel Capsule will provide at least 6 launches!!**

**Step 7:** To store your fuel capsule for later use, wrap it in cling wrap or put it in a sealed container (zip-lock bag).

