Concepts

- Design & Build
- Structures & Mechanisms
- Alternative Energy

- Gears & Gear Ratios
- Circuits
- Wind Energy

Contents

- 100 x popsicle sticks
- 1 x 118 mL craft glue
- 1 x high generator torque motor
- 1 x aluminum clip motor holder
- 2 x LED lights (colours vary)
- 1 x mixed gear pack (Variety of teeth sizes + bushings)

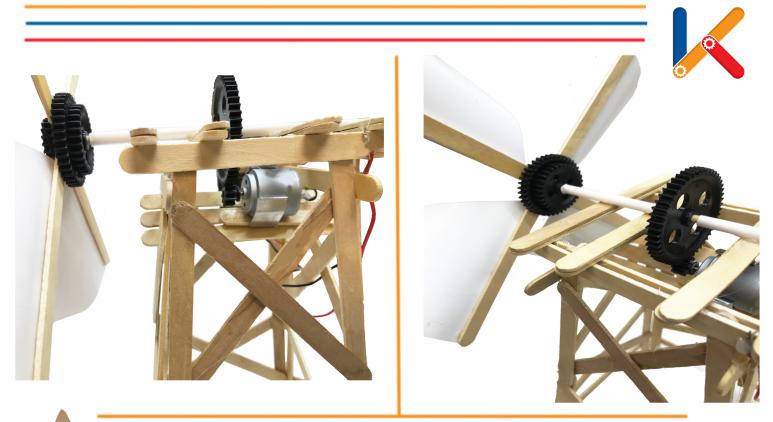
- 1 ft of red stranded wire
- 1 ft of black stranded wire
- 2 x 4mm x 8" wooden dowel
- 1 x large 8" straw
- Strip of double sided foam tape

Popsicle Stick Wind Turbine Tinker Kit



Cat# 83-54-WNTK





• With these materials/components you have everything you need to tinker with and design your very own working wind turbine!

• Wood glue included but hot glue gun is ideal to speed up cure time. Available at kidder.ca or local dollar store.

• These pictures are only ideas of how your turbine can look! Experiment with different structural designs, blade shapes and lengths to optimize the output of your turbine.

• Ensure that the gear on your turbine blade and the one attached (using bushing) to your motor spindle are secure enough to allow both gears to flow freely.

• Strip the red & black wire on both ends using scissors and twist connect them to the DC motor and LED prongs.

• Use a volt meter (not included) to test the strength of your electric output! You can also test on other loads like a buzzer, DC motor or mini light bulbs also available at kidder.ca.

• Scan QR code below with your phone to see a mini popsicle stick wind turbine in action!

@kiddereducation

• Tweet your design to:



www.kidder.ca