

# b.Brilliant

## Welcome to b.Brilliant

Join Alex as she and her fellow makers explore the world by creating with new technology, interviews with experts to help solve problems, and uncovering the mysteries of “BB”, a mischievous lab A.I. that seemingly likes to help, but also likes to cause some problems for b.Brilliant’s teacher: Mr.Lingley.

## b.Brilliant, Ep.2: Activity 3, Homemade Wind Turbine

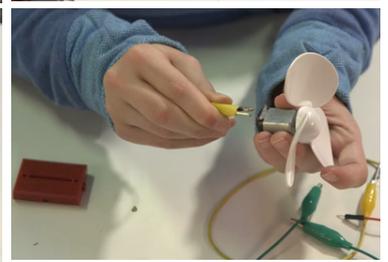
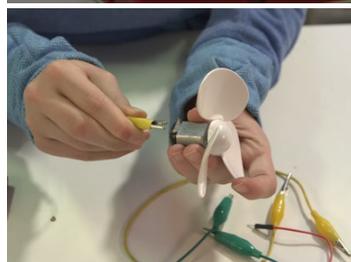
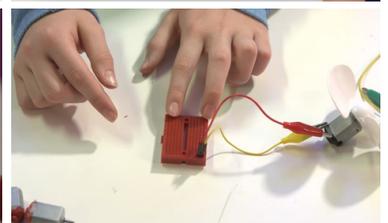
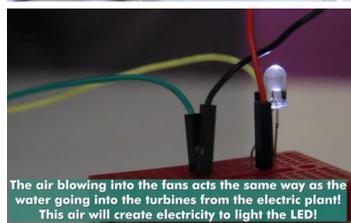
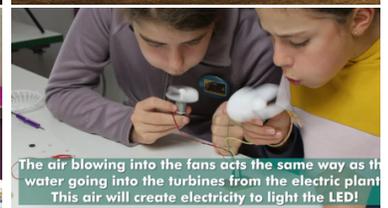
In this activity, we will learn how make a homemade wind turbine. When the wind is blowing 19km an hour a wind turbine can produce 1.5 megawatts of power. That is enough electricity to power about 813 homes

**Timeframe:** 15-20 mins

**Materials:** Mini desk fan  
DC motor  
2 Alligator clips  
Breadboard  
Mini LED

### Instructions:

Attach your fan to the DC motor.  
Clip your alligator clips onto the DC motor terminal.  
Insert the other end of your clips into the breadboard.  
Place your LED on the breadboard in the same column as the alligator clips.  
Pretend you are the wind, and blow on your fan!  
The LED will light up, you are generating power!



## Did you know?

Electricity from wind energy creates no greenhouse-gas emissions, no air or water pollution, and no toxic or hazardous wastes.

Canadian Renewable Energy Association. (2021, September 25).Wind Energy. <https://renewablesassociation.ca/wind-energy/>

QUESTIONS OR NEED A LITTLE SUPPORT? LET'S CONNECT, EMAIL [INFO@BRILLIANTLAB.CA](mailto:INFO@BRILLIANTLAB.CA)