

The Education University of Hong Kong 2021-2022 Quality Education Fund Thematic Network – Tertiary Institutes STEM Project Team

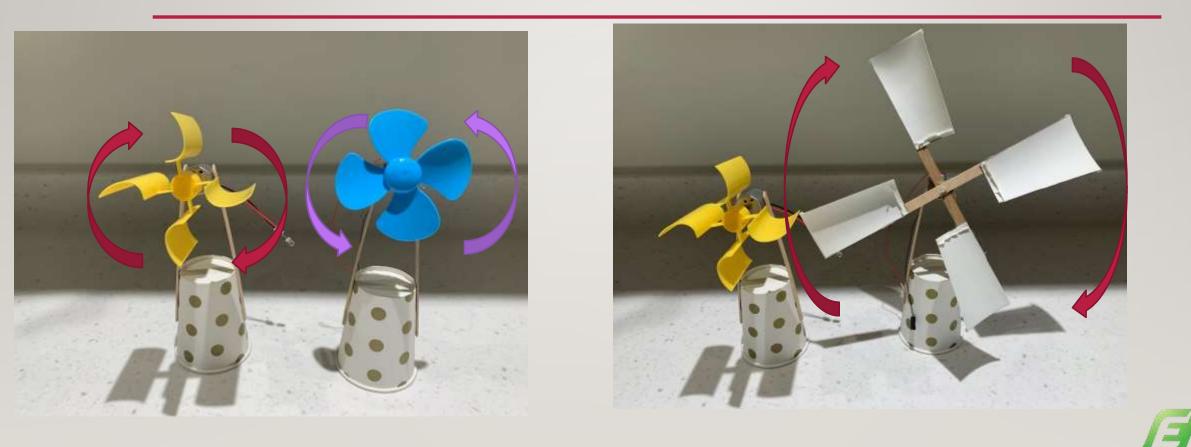
SCHOOL: LOK WAH CATHOLIC PRIMARY (P5)

TOPIC: WIND TURBINES DESIGN FOR ALTERNATIVE ENERGY





風力發電機 - 扇葉

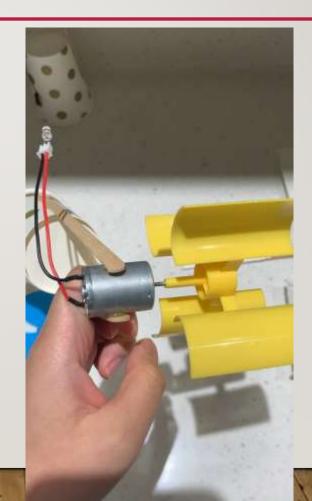


料塑洗油油用系 Department of Science and Divisionmental Studies



PAPER CUP – OUTDOOR YELLOW – BY HAND









FAN(MODE_I) TEST WITH VOLTMETER

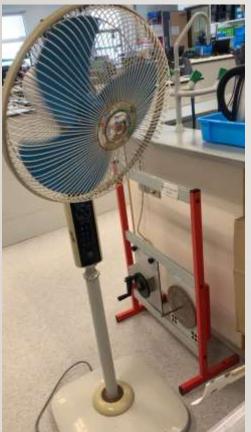


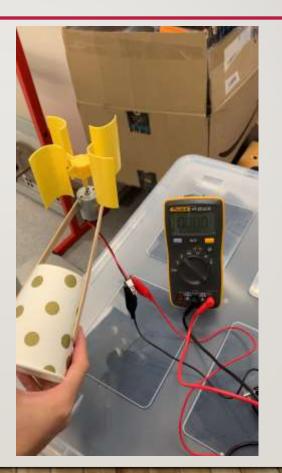






FAN(MODE_I) TEST WITH UT33C+













ADDITIONAL (I)





Blue - clockwise and anticlockwise



ADDITIONAL (2)

BASIS	MOTOR	GENERATOR
Function	The Motor converts Electrical energy into Mechanical Energy	Generator converts Mechanical energy to Electrical energy.
Electricity	It uses electricity.	It generates electricity
Driven element	The Shaft of the motor is driven by the magnetic force developed between armature and field.	The Shaft is attached to the rotor and is driven by mechanical force.
Current	In a motor the current is to be supplied to the armature windings.	In the generator current is produced in the armature windings.
Rule Followed	Motor follows Fleming's Left hand rule.	Generator follows Fleming's Right hand rule.
Example	An electric car or bike is an example of electric motor.	Energy in the form of electricity is generated at the power stations.



(Generator (發雷機)











ADDITIONAL (3)

