

Invent a Windmill

1ST GRADE

ACTIVITY GUIDE

STEP 01: READ

The Boy Who Harnessed the Wind

by William Kamkwamba and
Bryan Mealer



Qq
is for
question

Literacy Focus

VOCABULARY

A **question** is when you ask something to learn more.
Questions help us find out new things!

SOUND AWARENESS

Question starts with the blend qu which makes
the sound /kw/.

Which word below also starts with the sound /kw/?



COIN



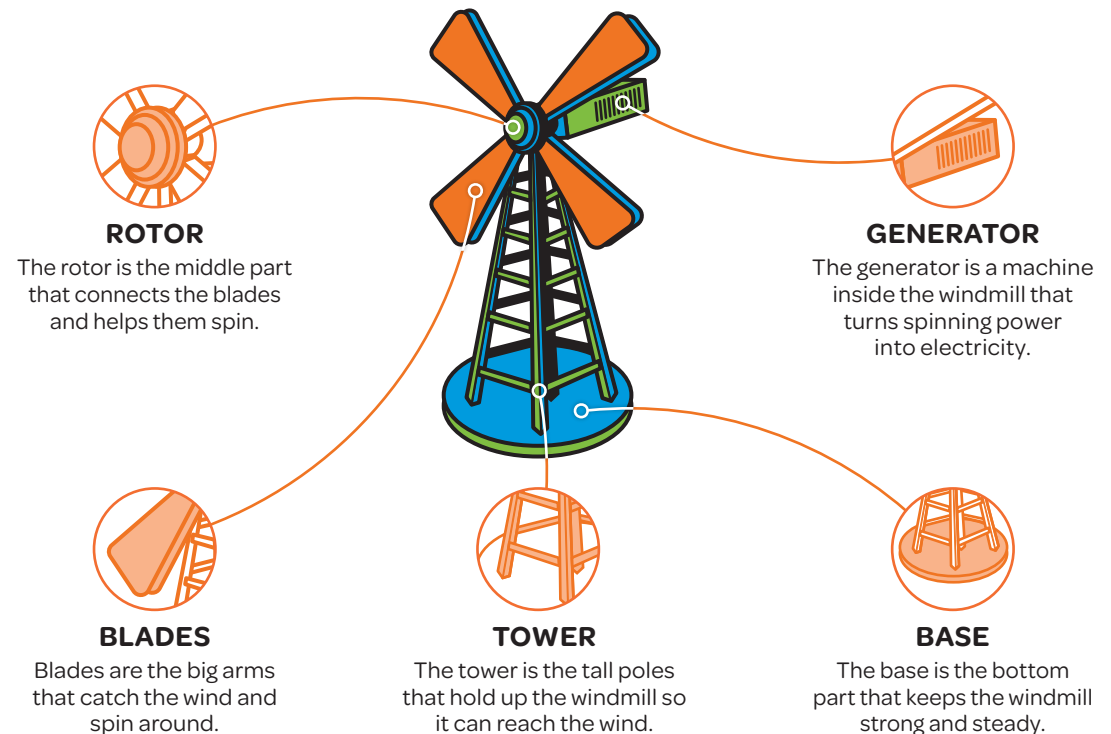
QUIZ



CUP

STEP 02: LEARN & EXPLORE

Learn about the different parts of a windmill!



STEP 03: INVENT

Invent your own windmill that includes all five important parts!
Flip the page to see an example!



Example Windmill

Can you explain how your invention works and what it helps with?



What could you change to make it better?

Real-World Connection

Did you know the wind, water, and sun can help make electricity? Just like some windmills use wind to create power, people can use rushing water from rivers and bright sunlight to bring electricity to homes and schools.

These things never run out, so they can keep helping people every day! That's why wind, water, and sunlight are great ways to make power that people can use again and again!



Reflection Questions

1. What problem did William's village have? How did he try to solve it?
2. Why do you think William wanted to learn how things work?
3. What part of your windmill made it spin?
4. Did you try something that didn't work at first? What did you change?
5. What part of your windmill was tricky to design?