

EST

passengers safe in a crash. Apart, you can see the thoughtful design of its safety. Because of this, we always feel when we're riding in a Tesla.

Did you know that the Model Y has the lowest rollover risk of any SUV that the NHTSA has ever tested?



Motor

its over. ig by the



ROOF FOUR TIMES THAT'S GROWN

Super-stre

Tesla's roof is d You probably th glass is the ex two layers of thermoplast steel roofs th



Reinforced steel

Tesla keeps passengers safe by using ultra high-strength steel in the sides of the car. Also, aluminum rails below the doors and bumpers in the front and back help absorb impact in side and head-on collisions.

Ultra high



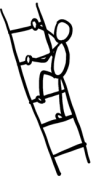
EVERYTHING TESLA

ACTIVITIES

WORD SEARCH



L U F D C M E I B A T T E R Y E S U Q B I D R
G U C D G A A N B J E O Y F P L E B D H L W B
U Y C K B O M G G K C U R T R E B Y C E A R D
M R P Q S P R E N S V R V P X C O X R E W G D
Z O C C I Q H F R E Y C I U D T H P Z F S L M
P T M Y T I C L I A T C J L Y R B U T V J N P
L C M X G I M E S N S H U E K I F K O I F R G
A A R E G E N E R A T I V E V C I U C L M E N
I F T N K Z F R W Z T W Z O N I Q N T N F U K
D P S U P E R C H A R G E R M T R D O N A F S
G J V E C J M H C Y T E F A S Y I E V Y N P F
I D W K V R E M M O U U I P I S J K A X K I F
T Z Z C S C U Q R E T S D A O R I S L H A R N
L T D N F O B E R B G T G F B K P C V K F Y S
D Y K M O T O R G V F F O Y N M I I E B N V M
I W J I Q I G E G A Q Q V E O U C A P F H L T



FIND THESE WORDS!

Battery
Cameras
Cybertruck
Electricity
Factory

Magnet
Motor
Octovalve
Optimus
Plaid

Regenerative
Roadster
Safety
Semi
Supercharger

EVERYTHING **TESLA**

SCAVENGER HUNT



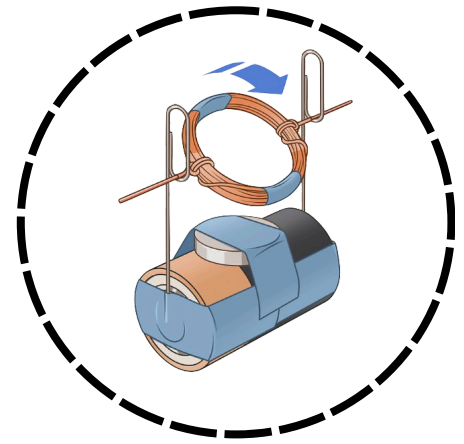
FIND THESE THINGS IN THE BOOK!

- Page: _____ Santa and his reindeer
- Page: _____ Fidget spinner
- Page: _____ Baseballs falling from the sky
- Page: _____ Sudoku
- Page: _____ Stick figure rolling a stone up a hill
- Page: _____ Jelly roll cake
- Page: _____ This digit-letter combination: 235/35 ZR20
- Page: _____ A rainbow
- Page: _____ Melting "ice cream" on a cone
- Page: _____ Dogs
- Page: _____ Suitcase full of travel gear
- Page: _____ A bag of potato chips
- Page: _____ 2 sand shovels
- Page: _____ Germs
- Page: _____ A cluster of bananas
- Page: _____ Our family's Model 3 dressed up for Halloween
- Page: _____ An outline of Australia

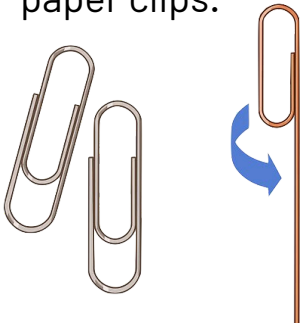


MAKE YOUR MOTOR

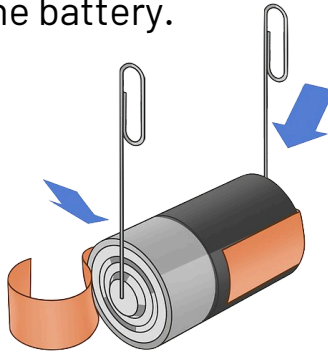
- scissors
- marker
- tape
- D battery
- 2 jumbo metal paperclips
- small magnet
- magnet wire
- fine-grit sandpaper



1. Bend both of the paper clips.

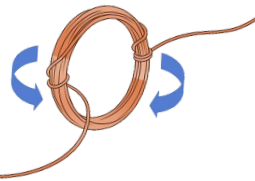


2. Tape paper clips to the ends of the battery.



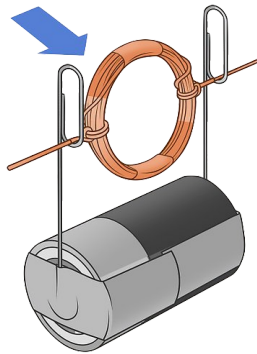
3. Wrap the wire around the marker 10x, leaving at least 2 inches of unwrapped wire on both ends.

4. Slide the wire off the marker and loop the ends of the wire into the wire coil to hold its shape.



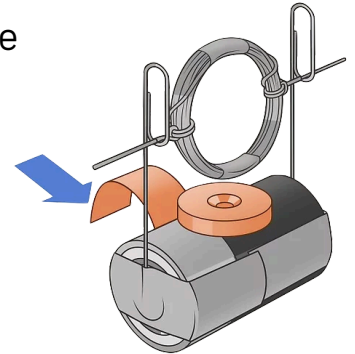
5. Sand off all the insulation on both ends of the wire.

6. Place your wire coil into the holes of the paper clips.



7. Tape magnet to the battery.

Give the wire a push to start spinning and watch it go!



Visit pages 16-17 in *Everything Tesla* to find out how Tesla's motors work! How is your motor different than Tesla's?

Thank you to these sites for instructions and pictures! For more guidance and tips on troubleshooting, visit:

https://www.sciencebuddies.org/science-fair-projects/project-ideas/Elec_p051/electricity-electronics/build-a-simple-electric-motor

<https://www.wikihow.com/Build-a-Motor>

