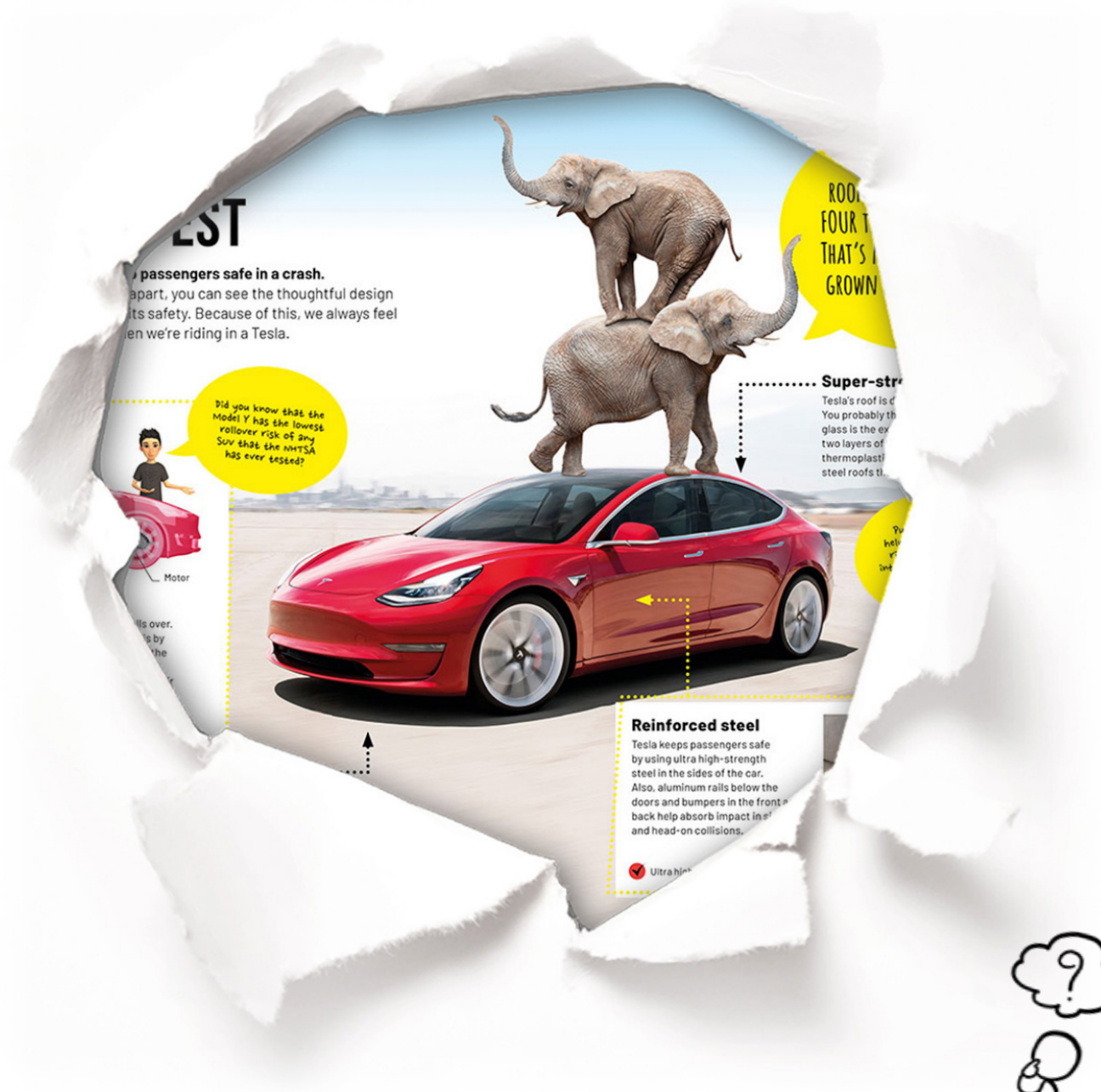
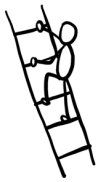



# Everything TESLA Activities

# 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

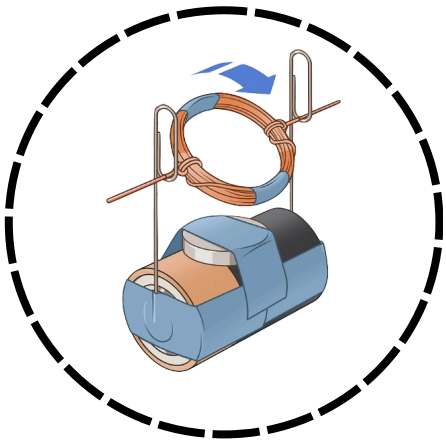
Page: _____ A cluster of bananas

Page: _____ Our family's Model 3 dressed up for Halloween

Page: _____ An outline of Australia

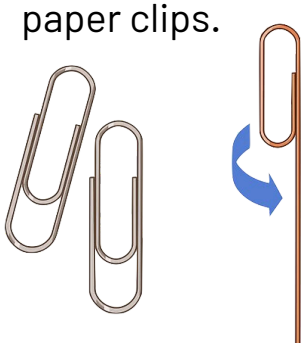
Everything TESLA

# Make your motor

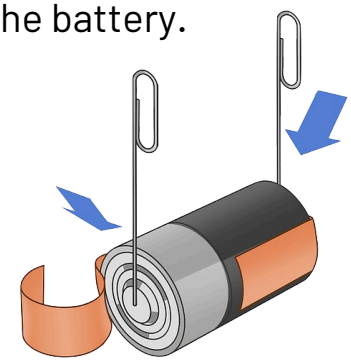


- scissors
- marker
- tape
- D battery
- 2 jumbo metal paperclips
- small magnet
- magnet wire
- fine-grit sandpaper

1. Bend both of the paper clips.

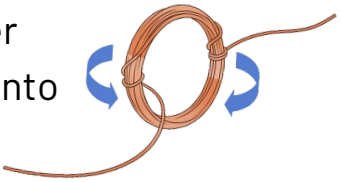


2. Tape paper clips to the ends of the battery.



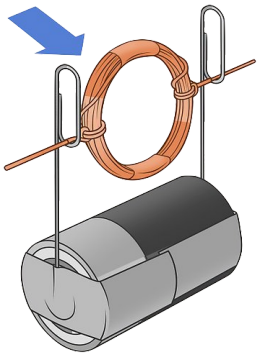
3. Wrap the wire around the marker 10x, leaving at least 2 inches of un-wrapped wire on both ends.

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



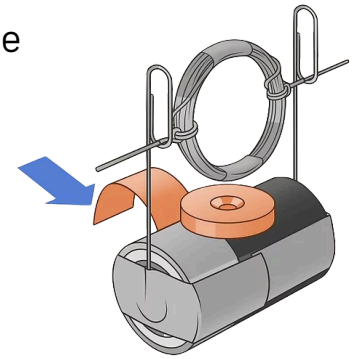
5. Sand off all the insulation on both ends of the wire.

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