



BRAINTREE DRIVES ELECTRIC

# Happy Holidays!



2020 Holiday EV  
Activity Book

# Happy Holidays

## Welcome to the 2020 Holiday EV Activity Book!

Braintree Drives Electric is proud to present our first Holiday EV Activity Book! We hope you enjoy working through this booklet and hope you have a very Happy Holiday season!

### **Joy to the world, savings are here!**

A lot has changed this year, but one thing that has never changed is our commitment to providing our customers with affordable and efficient energy, resources and support. At Braintree Electric Light Department, we're here for you!

Want to learn more about EVs, green energy and our incentive programs? Visit our website or reach out to our EV Specialist Support Service to learn more about

***EVs & Charging Basics  
Benefits to Braintree Drivers  
Calculating your potential savings  
Setting up a test drive  
And MORE!***

**Visit us at: [braintree-ev.ene.org](http://braintree-ev.ene.org) or email us at  
[ev@ene.org](mailto:ev@ene.org)**



# CHARGING CHALLENGE



Hi! I'm PHyl, and I'm a PHEV, or a Plug-In Hybrid Electric Vehicle! My favorite fuels are gas and electricity!

Hi! I'm BEVerly and I'm a BEV, or a Battery Electric Vehicle! My favorite fuel is electricity!



Can you help BEVerly & PHyl find charging? Find the right path and label the correct level. Use the guide on the next page to help you!

# Charging Challenge



## Level 1 "Regular" *Home!*

- Uses a standard outlet (the same type of outlet that you charge your phone with!)
- No "charging station" needed! Take a few seconds to plug your car in each night. By the next morning you're ready to go!
- Level 1 works best for plug-in hybrid electrics (PHEVs) with small batteries, and/or people who do not drive much each day.

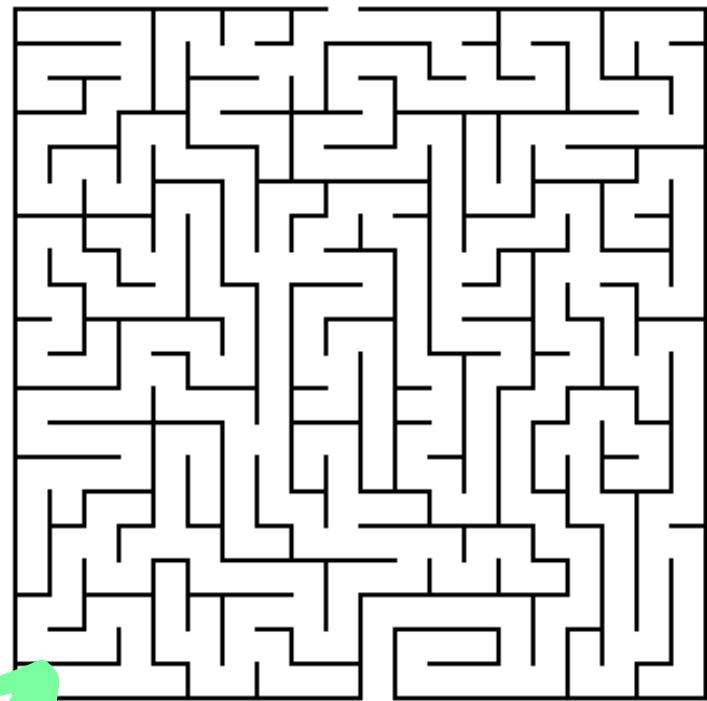
## Level 2 "Plus" *Home, offices, and more!*

- Uses a round outlet called a NEMA 14-50 (like the outlet you'd plug an electric stove or clothes dryer into).
- Wired to an electrical panel, **or** hard-wired to a wall-mounted EV charging station.
- Most common type of charging (private and public) and adds up to 70 miles of range per hour. Get a full charge overnight!

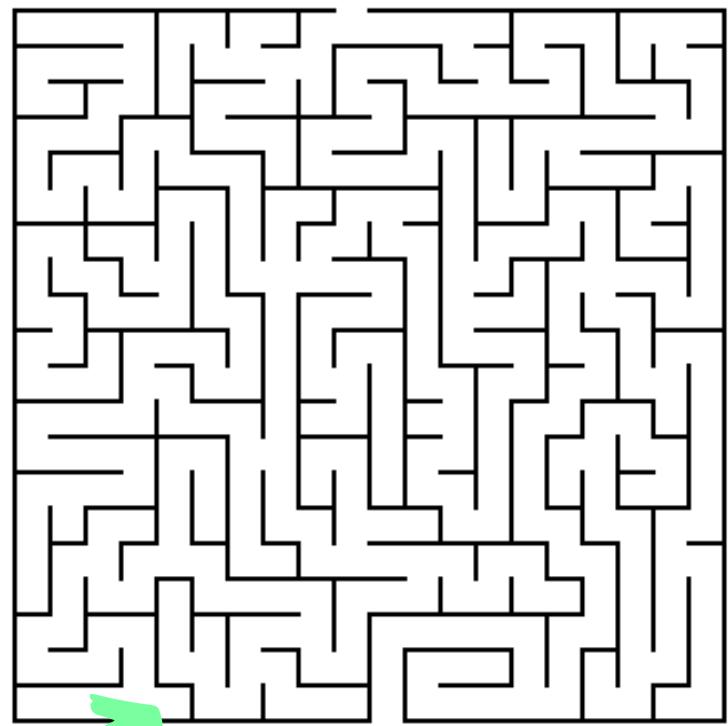
## Level 3 "Premium" *Rest stops, community hubs!*

- Also known as public DC Fast Charging, Quick charging, and Supercharging
- Level 3 adds hundreds of miles of range per hour of charging. Charge in around 30 minutes, or while you grab some lunch on a fun road-trip!

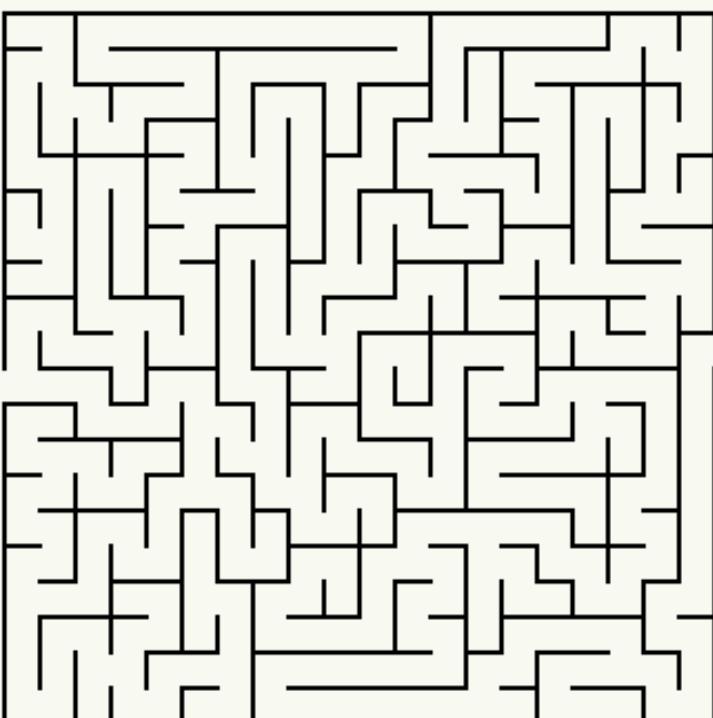
# Charging Challenge



LEVEL



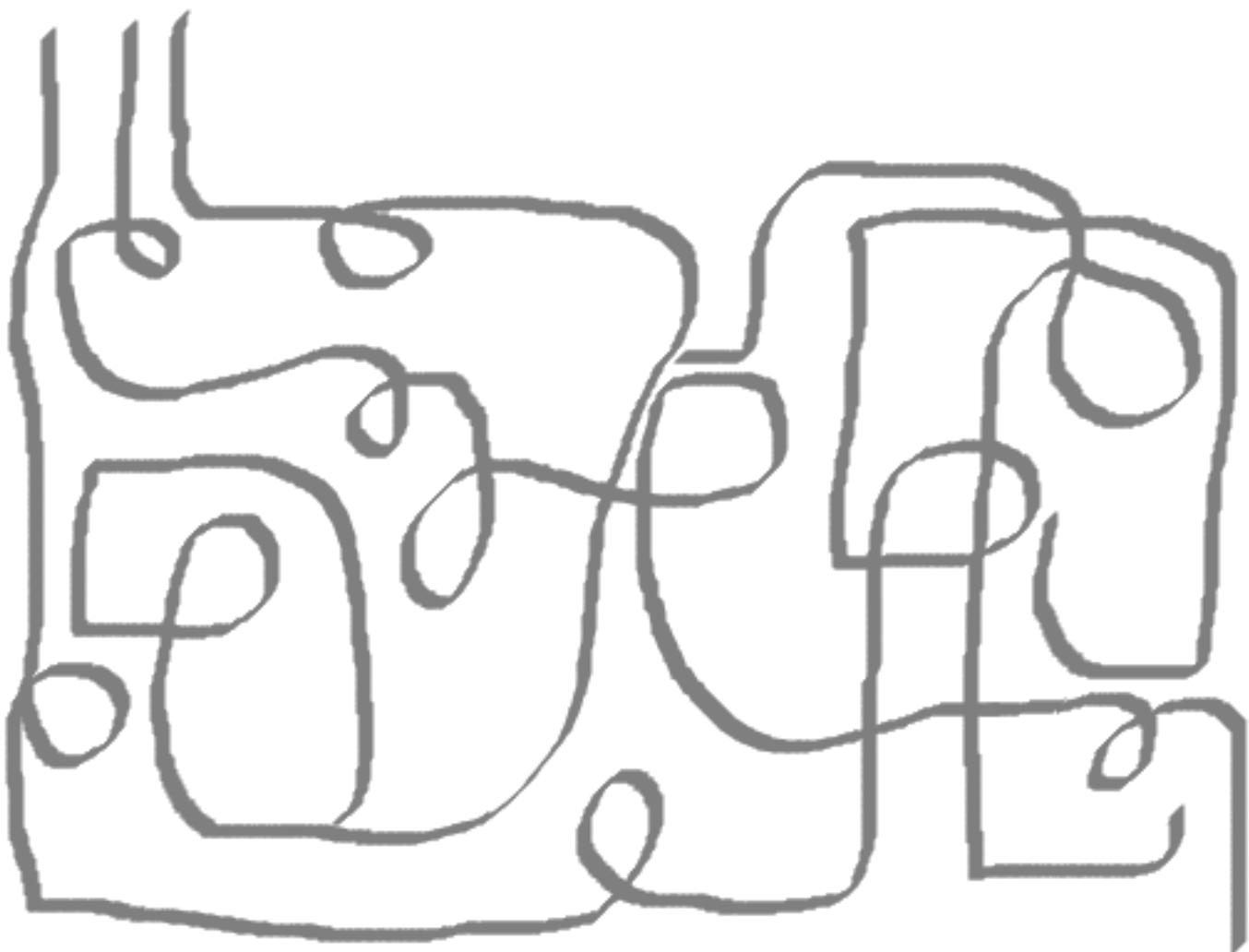
LEVEL



LEVEL

# TANGLED WIRES

*Find the correct wire that leads  
from the plug to the outlet*

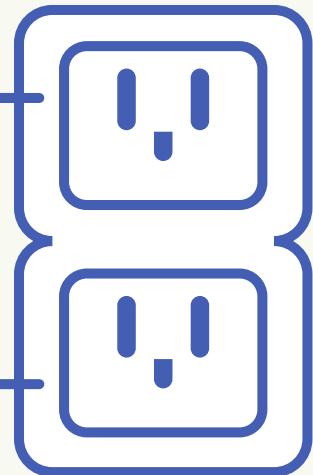
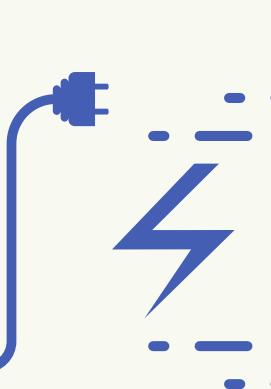
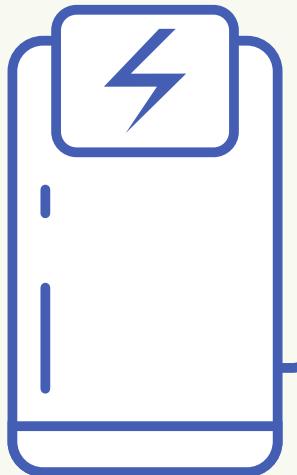
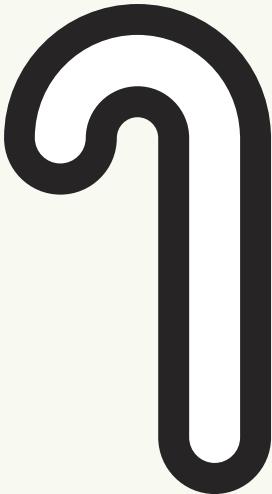
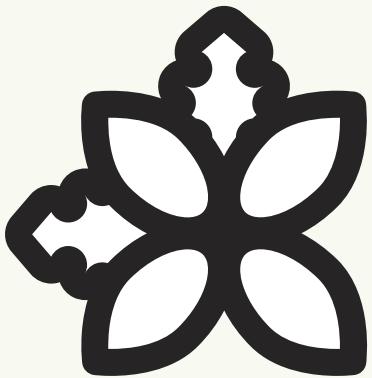
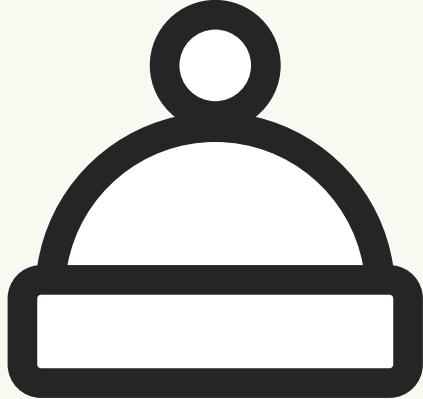
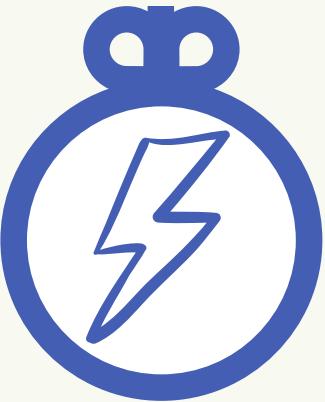
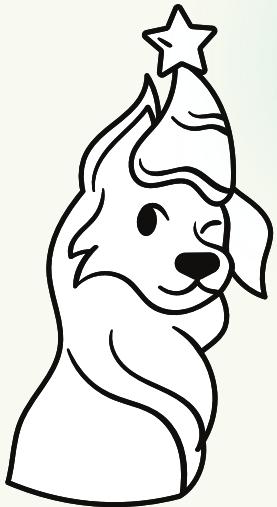


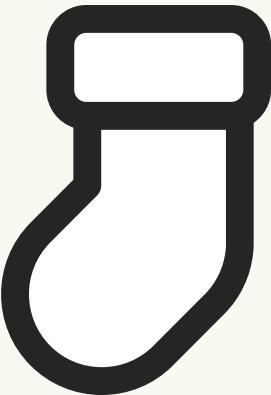
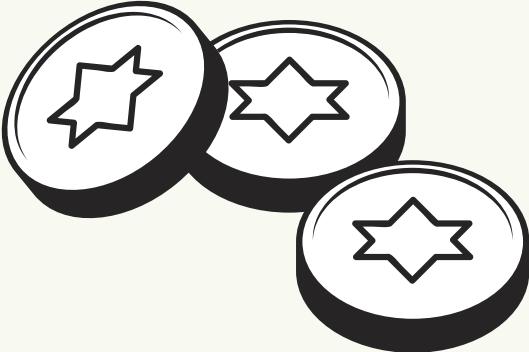
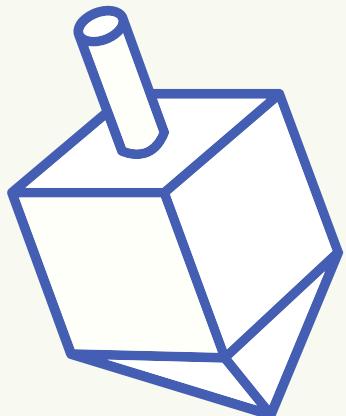
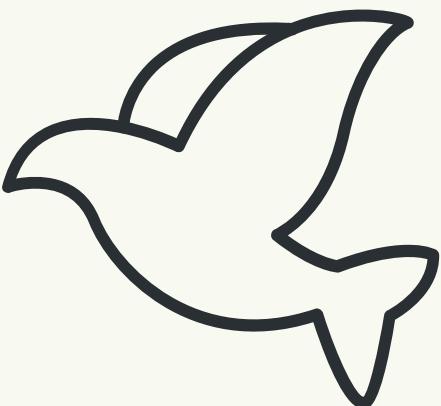
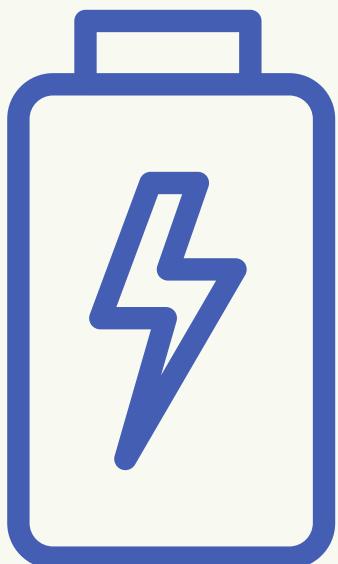
**FINISH**

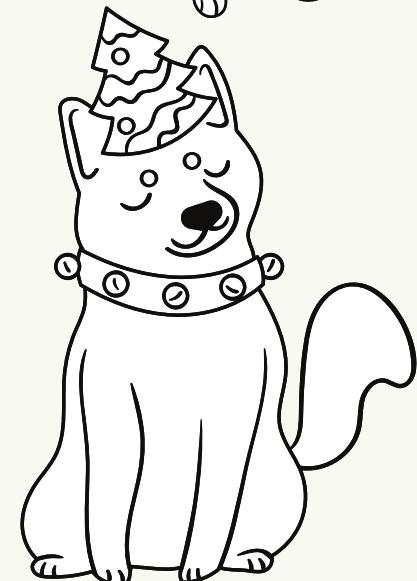
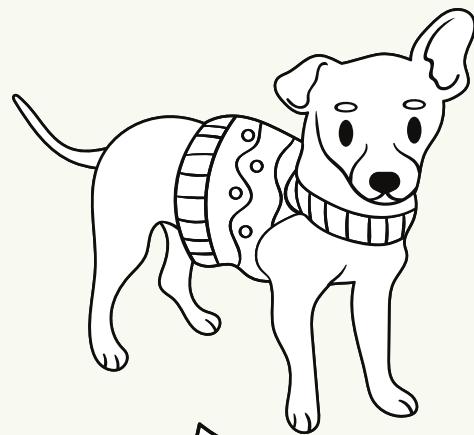
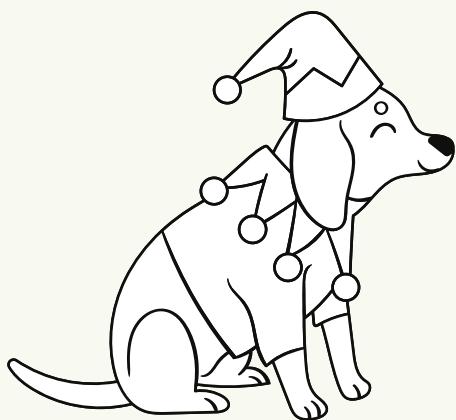
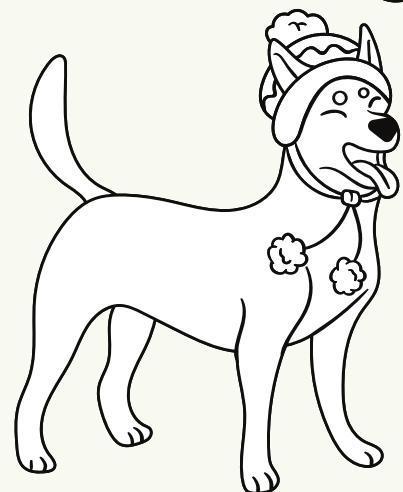
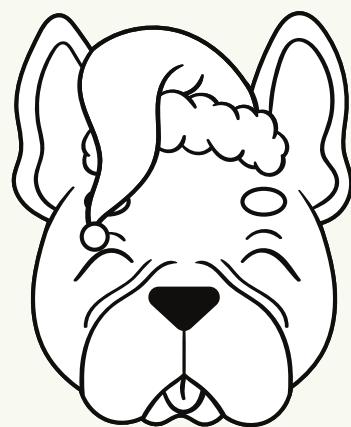
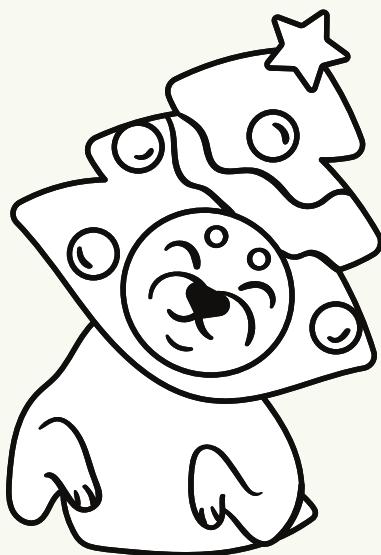
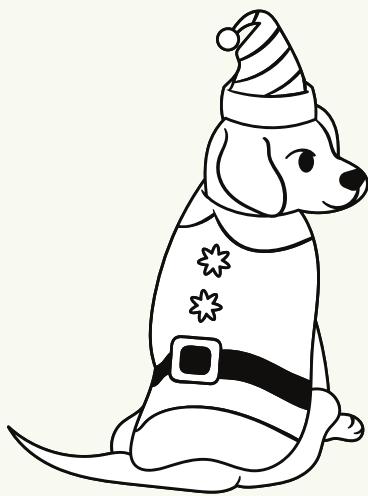


# COLORING PAGES

*Color on regular paper, or use label paper  
and make your own at home stickers!*









# REGENERATION STATION

Hi! I'm Ruby the Reindeer and these are my friends EVan and Electra, the Energy Elves! We help Santa deliver presents! It's a really fun job, but we can get really tired flying all over the world in one night! That's why we use a special sleigh to help us!

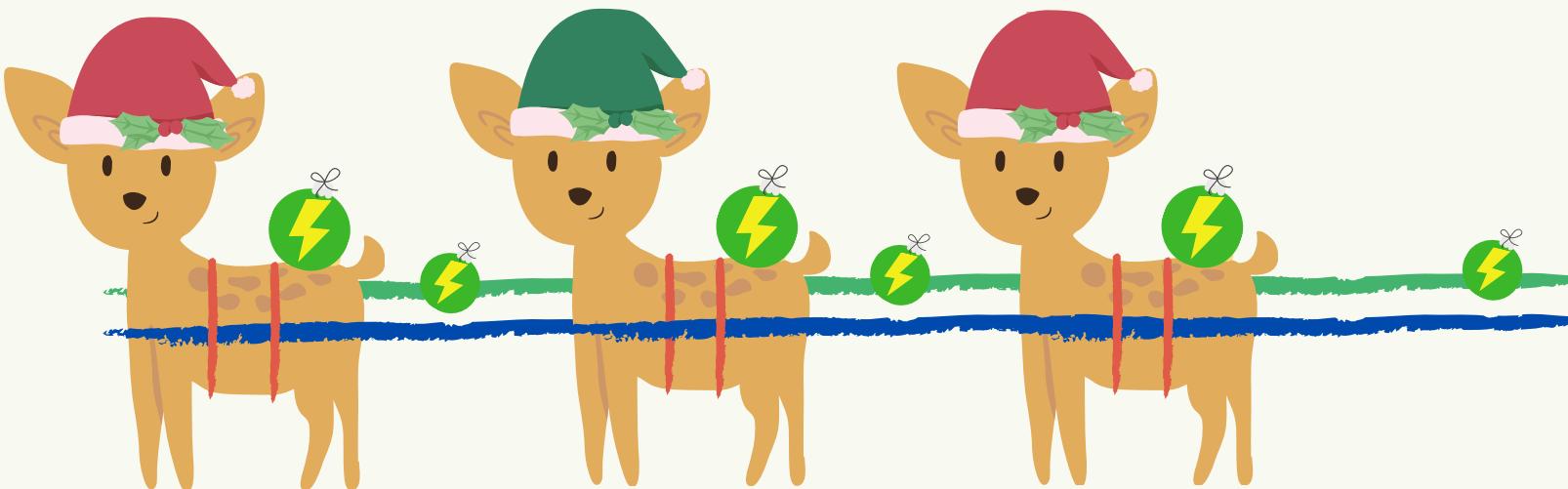


We like to call the sleigh "*Regen Red*", because it uses something called regenerative braking, just like many EVs do! It has a long name, but it's really simple!

## Regeneration Station

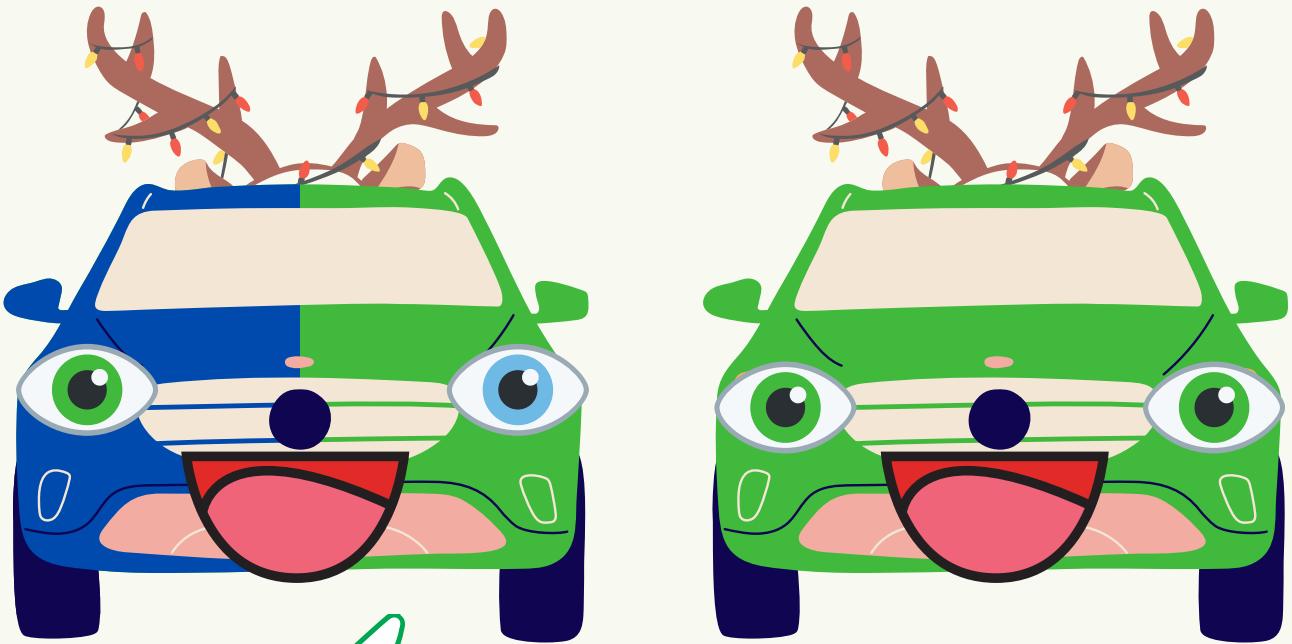


When the reindeer are flying, we send them Energy Orbs so they don't get tired!



When we take a break, and Santa delivers presents, we send the Energy Orbs back to the Energy Elves to use and make more of!





Wow, that is a lot like regenerative braking! For us, when we drive, our battery gives us energy. When we stop, our electric motor sends that energy back to the battery. Then we can use it again!

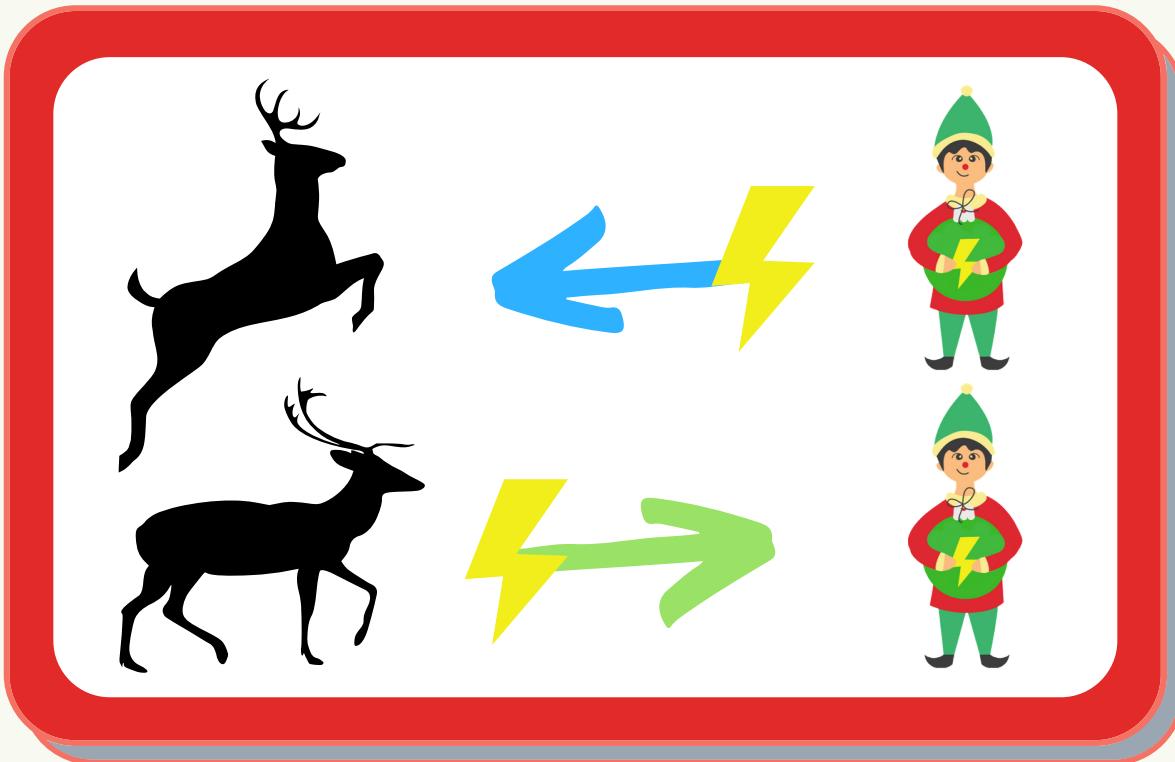
## Electric Motor



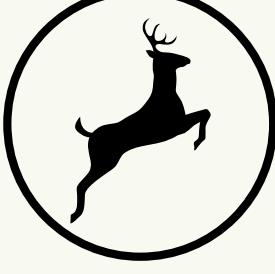
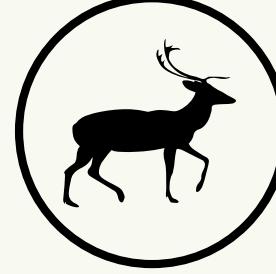
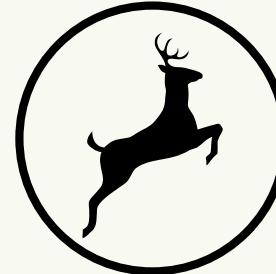
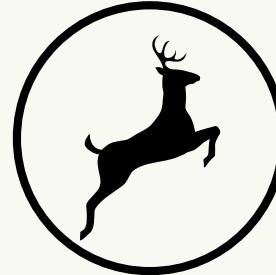
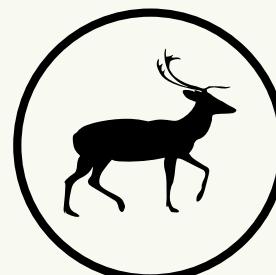
## Battery



# REGENERATION STATION CHALLENGE



Can you color the Energy Orb the correct color that matches the sign and help the elves sort them? The first two are done for you!



# GUESS WHICH?

**Player 1:** Pick a character, but don't tell anyone who it is! Give a clue from the list below.

**Other player(s):** Take turns guessing who Player 1 is!

I wear a hat.

My favorite fuel is electricity.

My name starts with 'E'

I re-use my energy to make more energy.

My favorite fuel is milk and cookies.

I can fly.

My favorite fuels are gasoline and electricity.

I deliver presents.

PHYL the PHEV



Ruby the Reindeer

Santa Claus



BEVERLY the BEV



EVAN the Energy Elf





# **TRUE OR FALSE?**

T / F



**1 People drove electric cars before they drove gasoline cars**

--	--



**2 EVs have been around since the 1800s**

--	--



**3 An electric car battery is fueled by electricity from the power company/ grid.**

--	--



**4 The energy for an electric car comes from a battery.**

--	--



**5 A PHEV can use either electricity or gasoline.**

--	--



**6 Electric car batteries last a very long time.**

--	--



**7 Charging an EV costs less than using gasoline to drive.**

--	--



**8 Tesla is the only car manufacturer that makes an electric car**

--	--



**9 Some electric cars can drive over 200 miles on one charge.**

--	--



**10 Electric cars use less energy than gasoline cars.**

--	--



**11 EVs make air cleaner in cities and towns.**

--	--



**12 EVs travel farther with the same energy as a gas car.**

--	--



 **TRUE!**

Thomas Edison and one of the original EVs in the 1800s.



You can learn more about EV history from our blog post "**Electrifying History: The Present is Past!**". Go to [braintree-ev.ene.org/blog](http://braintree-ev.ene.org/blog) to read it!

**1,2,3,4,5,6,7,9,10,11,12**



**FALSE!**



**8**

Lots of your favorite brands make EVs, including Chevy, Ford, Hyundai, Nissan, Toyota, Subaru, BMW and more!



# WORD HUNT

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



**ELECTRIC  
FUEL  
CHARGE  
SAVE  
ENERGY  
EARTH  
BRAINTREE  
DRIVE**



# EV TIC-TAC-TOE

*Can you win by finding things from this activity book and our website ([braintree-ev.ene.org](http://braintree-ev.ene.org))?*

MOST COMMON CHARGING LEVEL

PICTURE OF A REAL CAR

3 BENEFITS OF EVS

"THOUSAND\$ MORE IN DISCOUNTS"

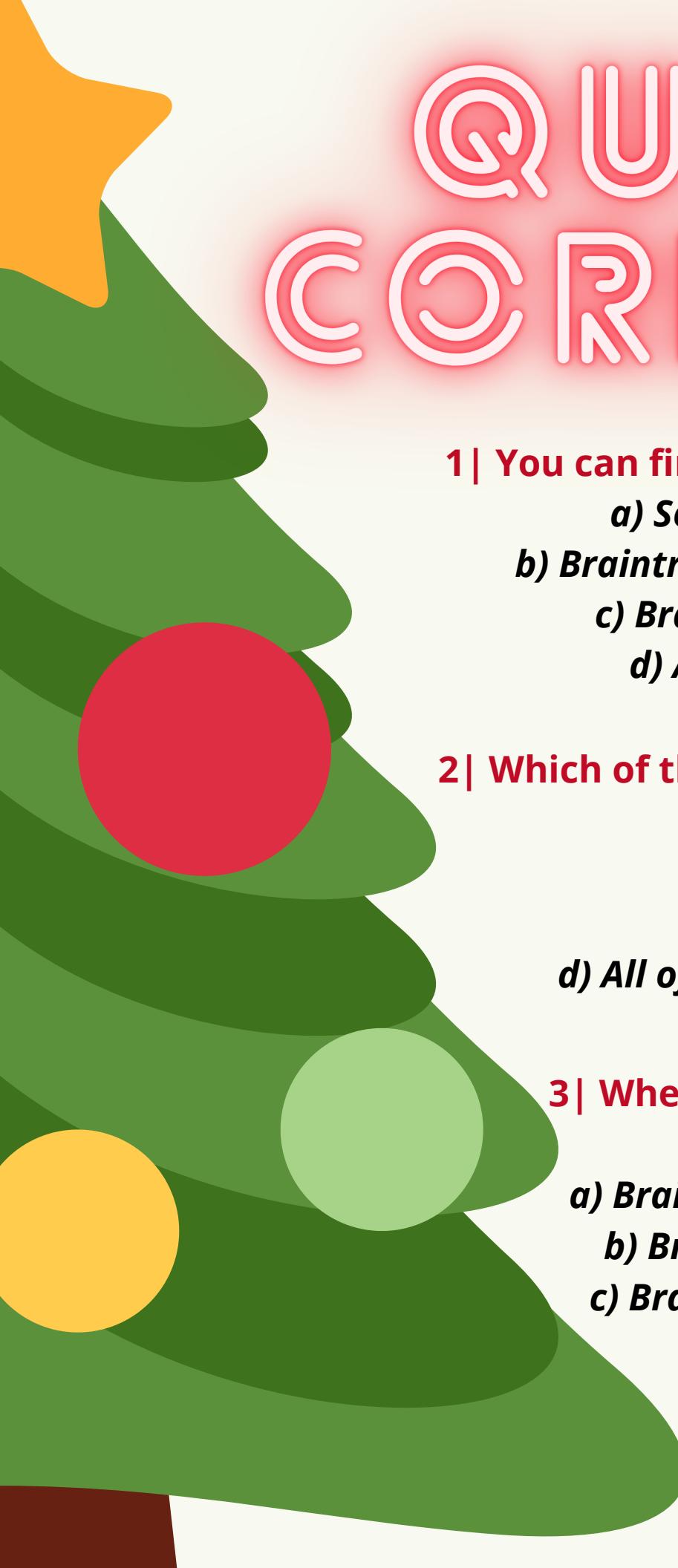


FASTESt CHARGING LEVEL

1 FACT FROM OUR BLOG

LENGTH OF EV BATTERY WARRANTY

TYPE OF EV THAT USES GAS & ELECTRICITY



# QUIZZ CORNER

1| You can find EV charging locally at:

- a) South Shore Plaza
- b) Braintree Electric Light Dept.
- c) Braintree Town Hall
- d) All of the Above

2| Which of these has an electric version?

- a) Cars
- b) Trucks
- c) Motorcycles
- d) All of the above - and more!

3| Where can you learn more about EVs?

- a) Braintree Drives Electric Website
- b) Braintree EV Specialist Email
- c) Braintree Drives Electric Social Media
- d) All of the above

Answers: 1.D, 2.D, 3.D

# THE 6 DAYS OF EVMAS



On the first day of EVmas  
BEVerly sent to me:  
and a \_\_\_\_\_ inside an EV!  
noun

On the second day of EVmas  
Ruby sent to me:

Two \_\_\_\_\_  
plural noun  
and a \_\_\_\_\_ inside an EV!  
noun

On the third day of EVmas  
Phyl sent to me:

Three \_\_\_\_\_  
plural noun  
Two \_\_\_\_\_  
plural noun  
and a \_\_\_\_\_ inside an EV!  
noun

On the fourth day of EVmas  
EVan sent to me:

Four \_\_\_\_\_ Energy Orbs  
adjective  
Three \_\_\_\_\_  
plural noun  
Two \_\_\_\_\_  
plural noun  
and a \_\_\_\_\_ inside an EV!  
noun



On the fifth day of EVmas  
Electra sent to me:  
Five Golden \_\_\_\_\_  
plural noun

Four \_\_\_\_\_ Energy Orbs  
adjective

Three \_\_\_\_\_  
plural noun

Two \_\_\_\_\_  
plural noun  
and a \_\_\_\_\_ inside an EV!  
noun



On the sixth day of EVmas  
my EV friends sent to me:

Six \_\_\_\_\_ a \_\_\_\_\_  
plural noun verb ending in -ing

Five Golden \_\_\_\_\_  
plural noun

Four \_\_\_\_\_ Energy Orbs  
adjective

Three \_\_\_\_\_  
plural noun

Two \_\_\_\_\_  
plural noun

and a \_\_\_\_\_ inside an EV!  
noun





# Season's Greetings!



to:  
from:





## Braintree Drives Electric



You can use me to decorate your creations!

## We want to hear from you!

Share your creativity and holiday spirit by making festive EV themed crafts, decorations and treats! Share using **#MerryEVmas** and you may be featured on our social media pages!





CREATED BY  
KAYLA TAVARES

at

EV SPECIALIST  
ENERGY NEW ENGLAND  
FOR BRAINTREE DRIVES ELECTRIC