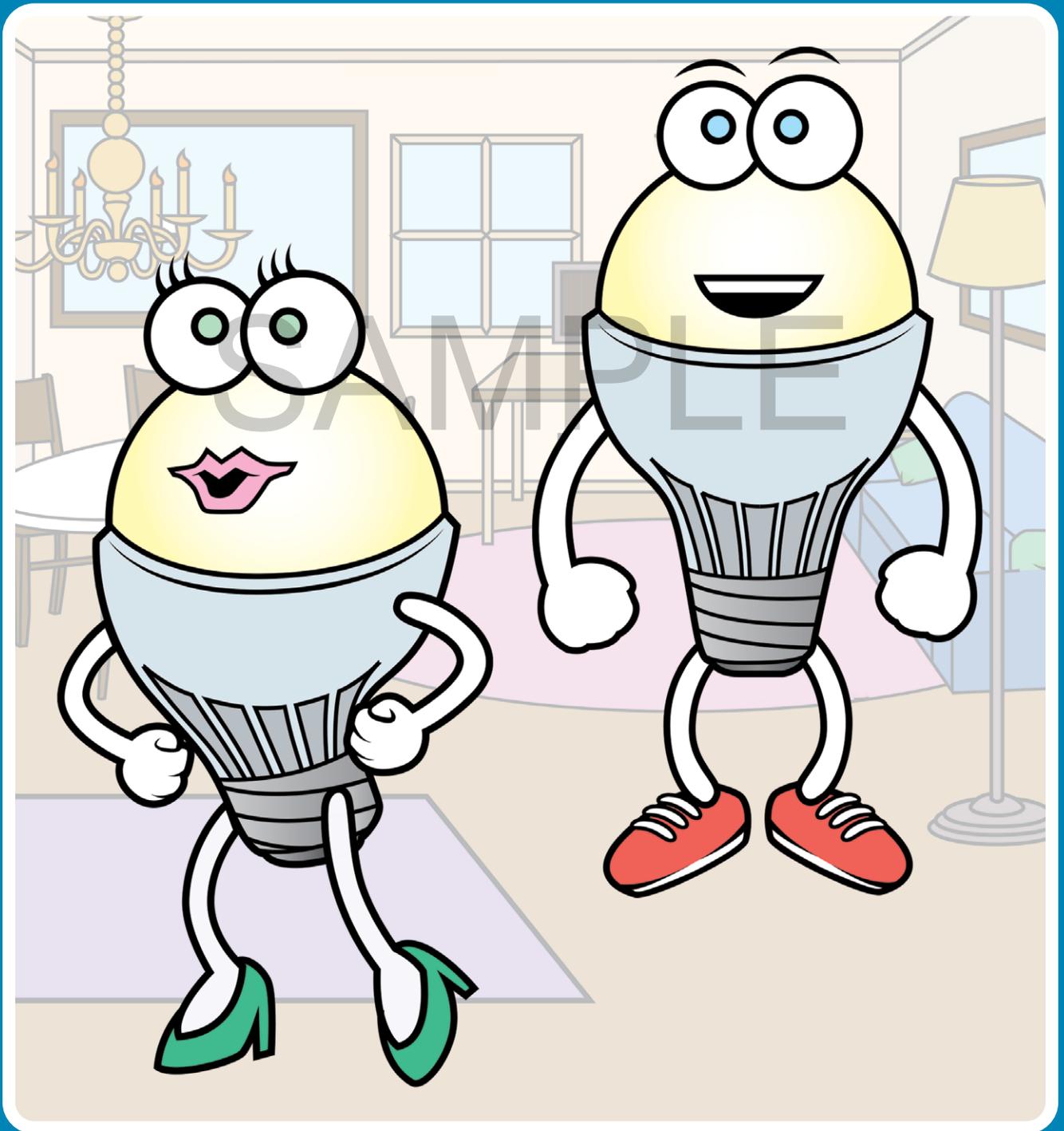


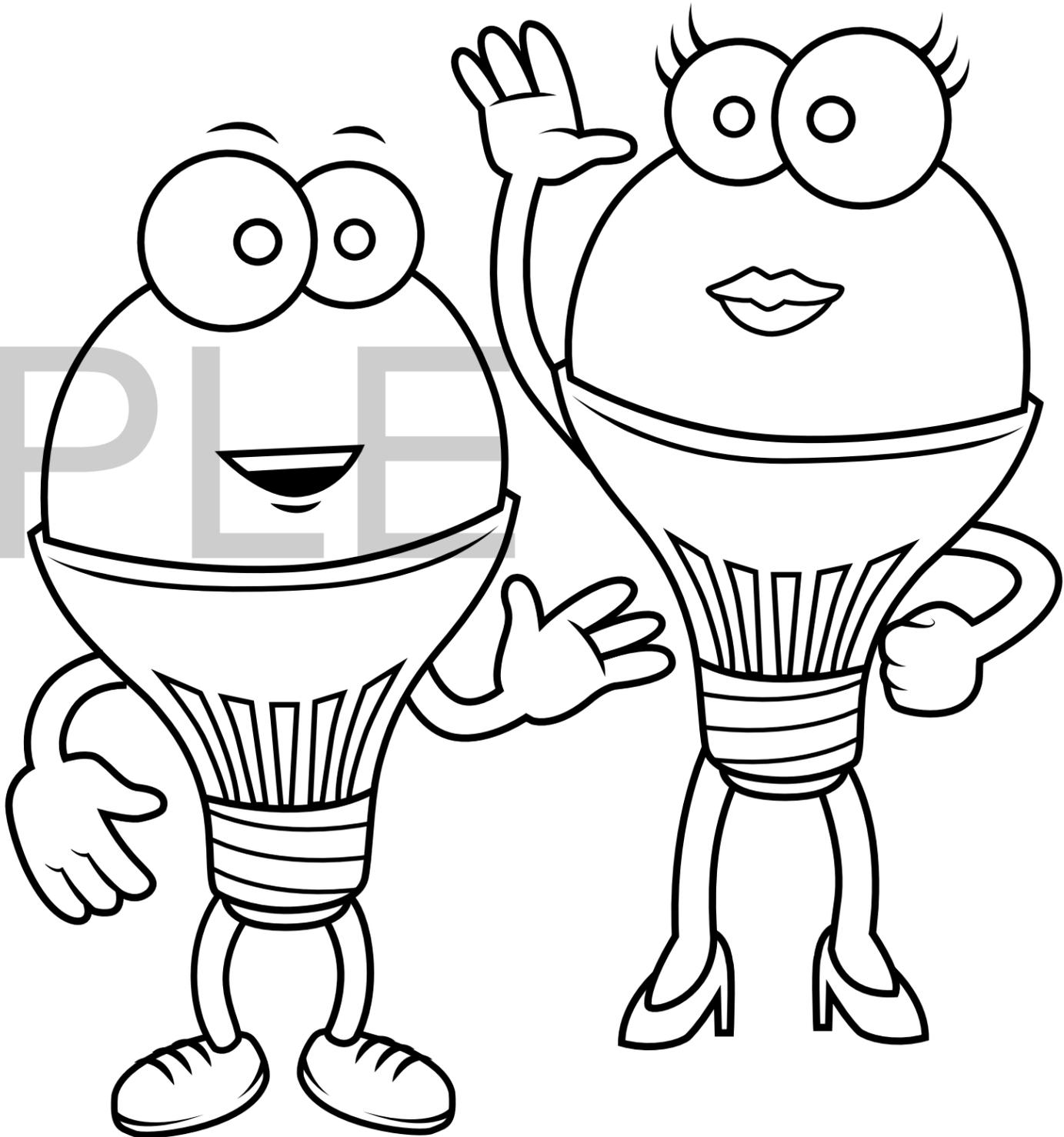
THE ADVENTURES OF LUKE AND LILLY

THE ENERGY-SAVING LED LIGHTBULBS

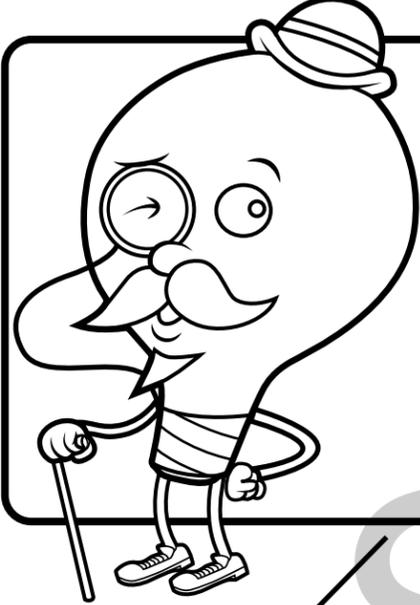


Hi, we're Luke and Lilly! We are LED lightbulbs,
and we are here to teach you all about
saving energy!

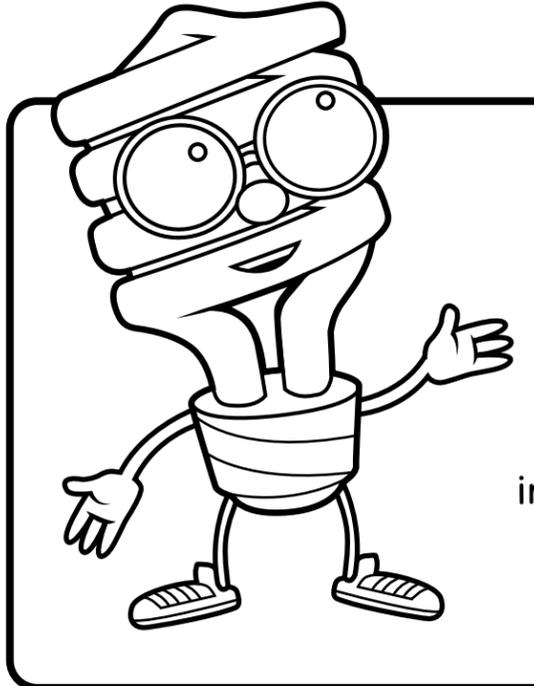
SAMPLE



LEDs are the newest type of lightbulb. We're younger than the other types of bulbs you can use in your home, but electric lights have existed for a long time. Here is a brief history of the lightbulb.

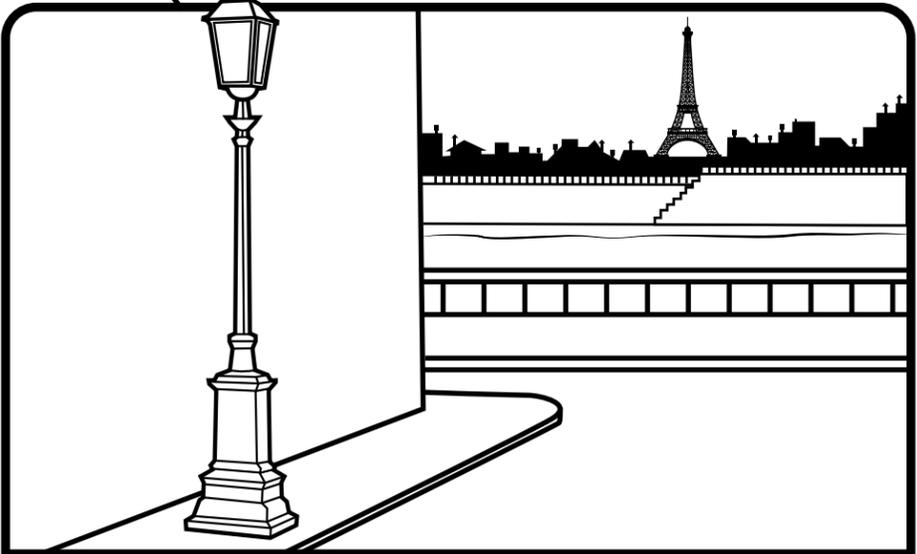


Incandescent Lightbulbs are still the most commonly used type of bulb. They were made popular by Thomas Edison more than 100 years ago! They work by using electricity to heat up a little wire inside the bulb.



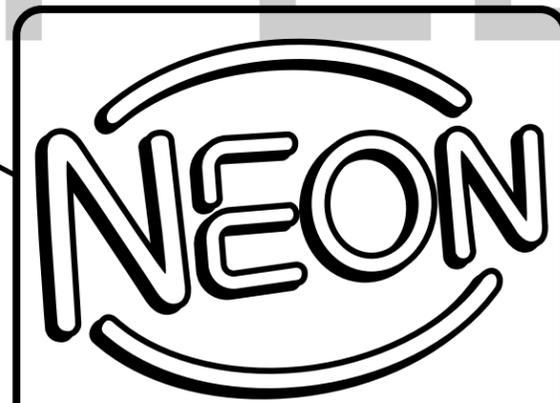
CFL Lightbulbs are compact fluorescent light bulbs made for your house. They are more energy efficient than incandescent bulbs.

Did you know?
CFLs need time to warm up. These bulbs don't become fully lit until a minute or two after you turn them on.



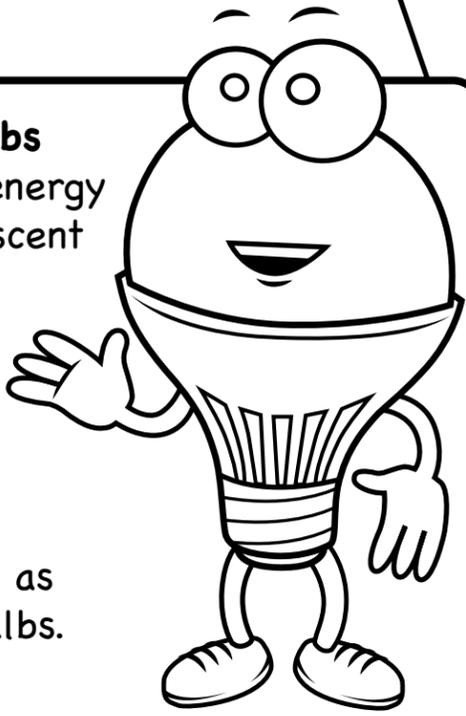
Arc Lamps were the first type of electric lights. Paris's nickname, "The City of Lights," came from the arc lamps used in its streetlights.

Did you know?
Before electric lights were invented, people had to use gas lamps or candles to read at night.



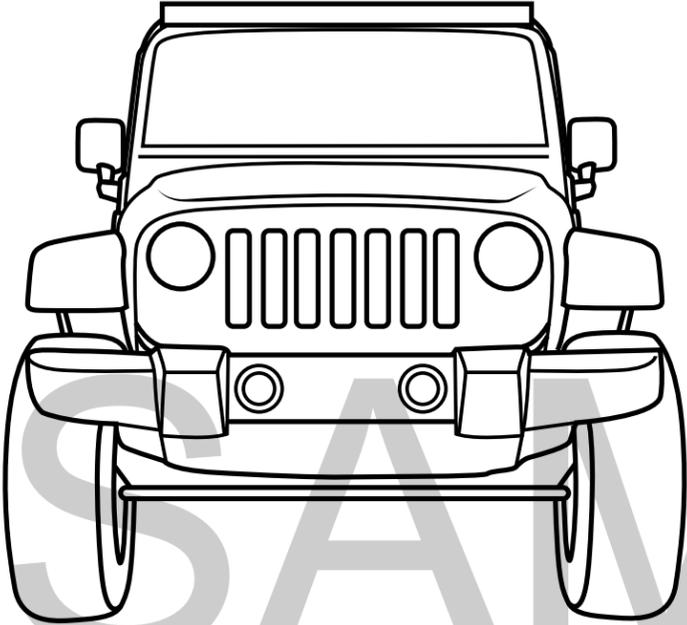
Neon and Fluorescent Bulbs
These types of lightbulbs work by electrifying gases inside of glass tubes. Neon is often used to make colorful signs. Fluorescent lights are often used in schools and office buildings.

LED Lightbulbs
We use less energy than incandescent and CFLs and we last longer. One big reason why is that we don't emit as much heat as traditional bulbs.

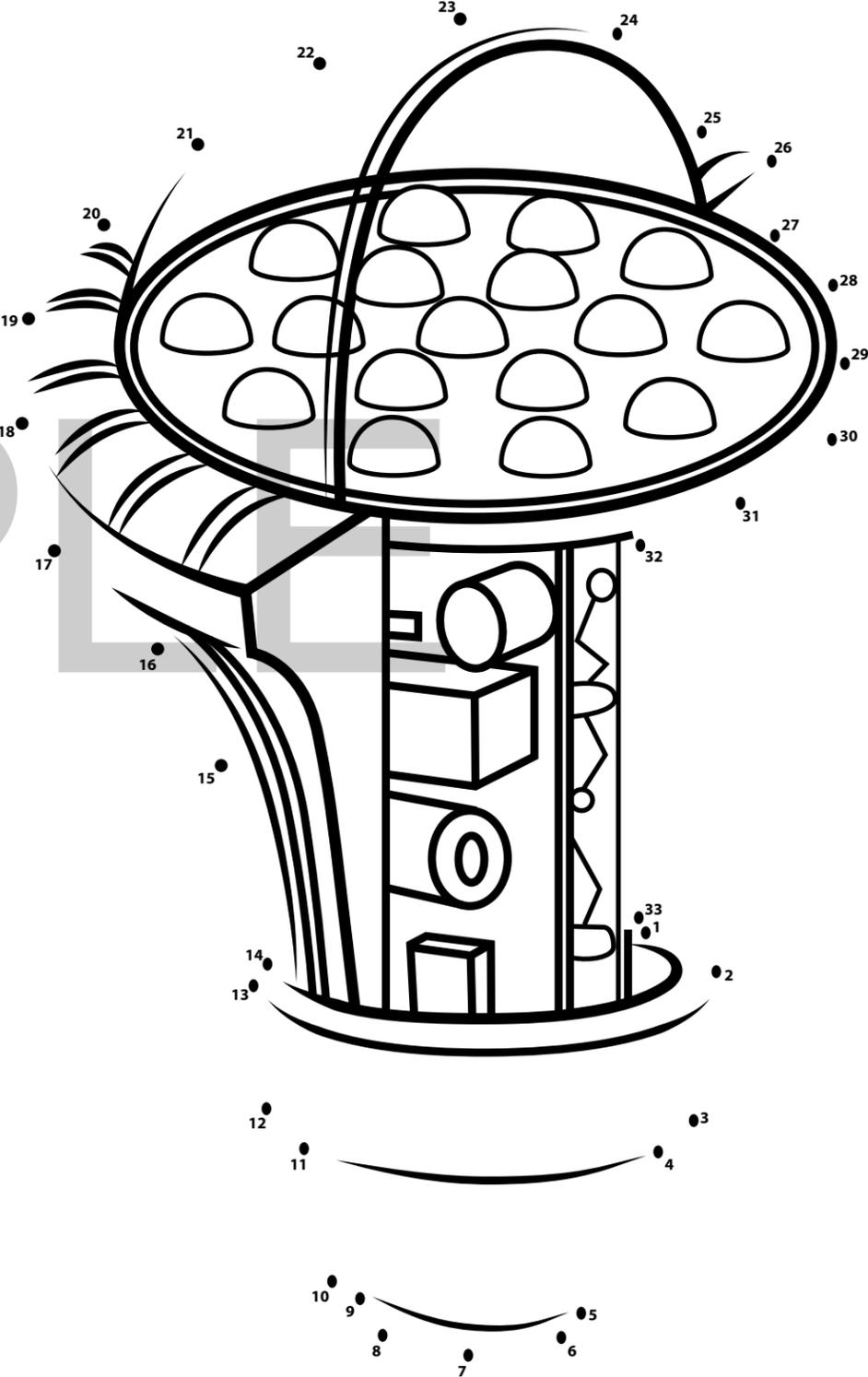


LED stands for light-emitting diode. LEDs are little dots of plastic and metal that light up. They can be found in lots of places:

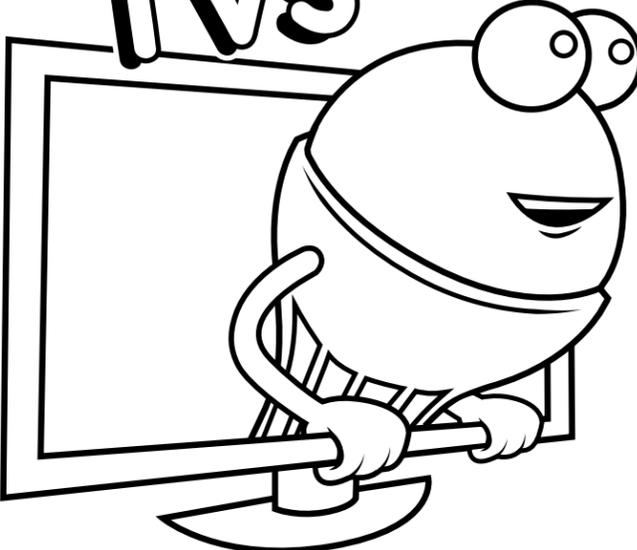
Headlights



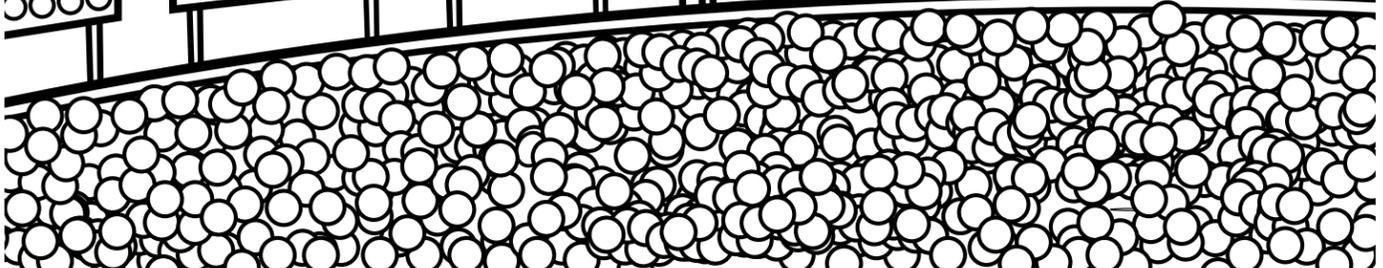
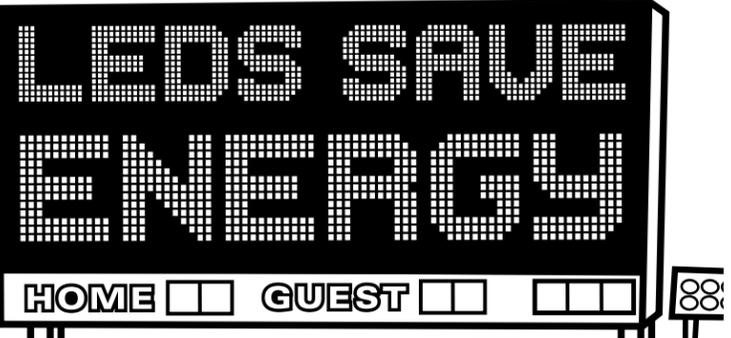
They can also be used to make lightbulbs like us! An LED bulb has a bunch of little LEDs inside of it that turn on at the same time. Can you connect the dots to complete this cross-section of an LED bulb?



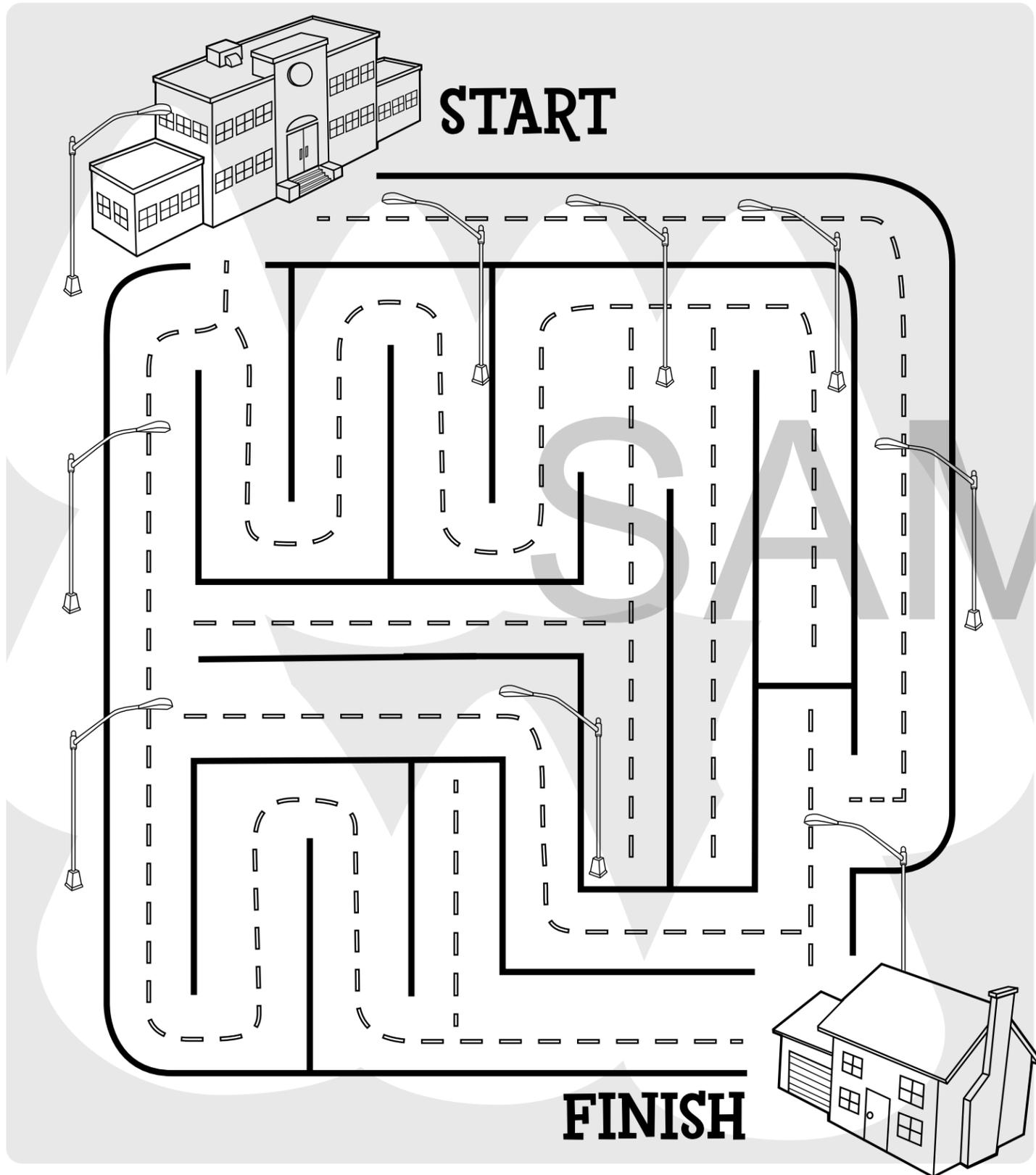
TVs



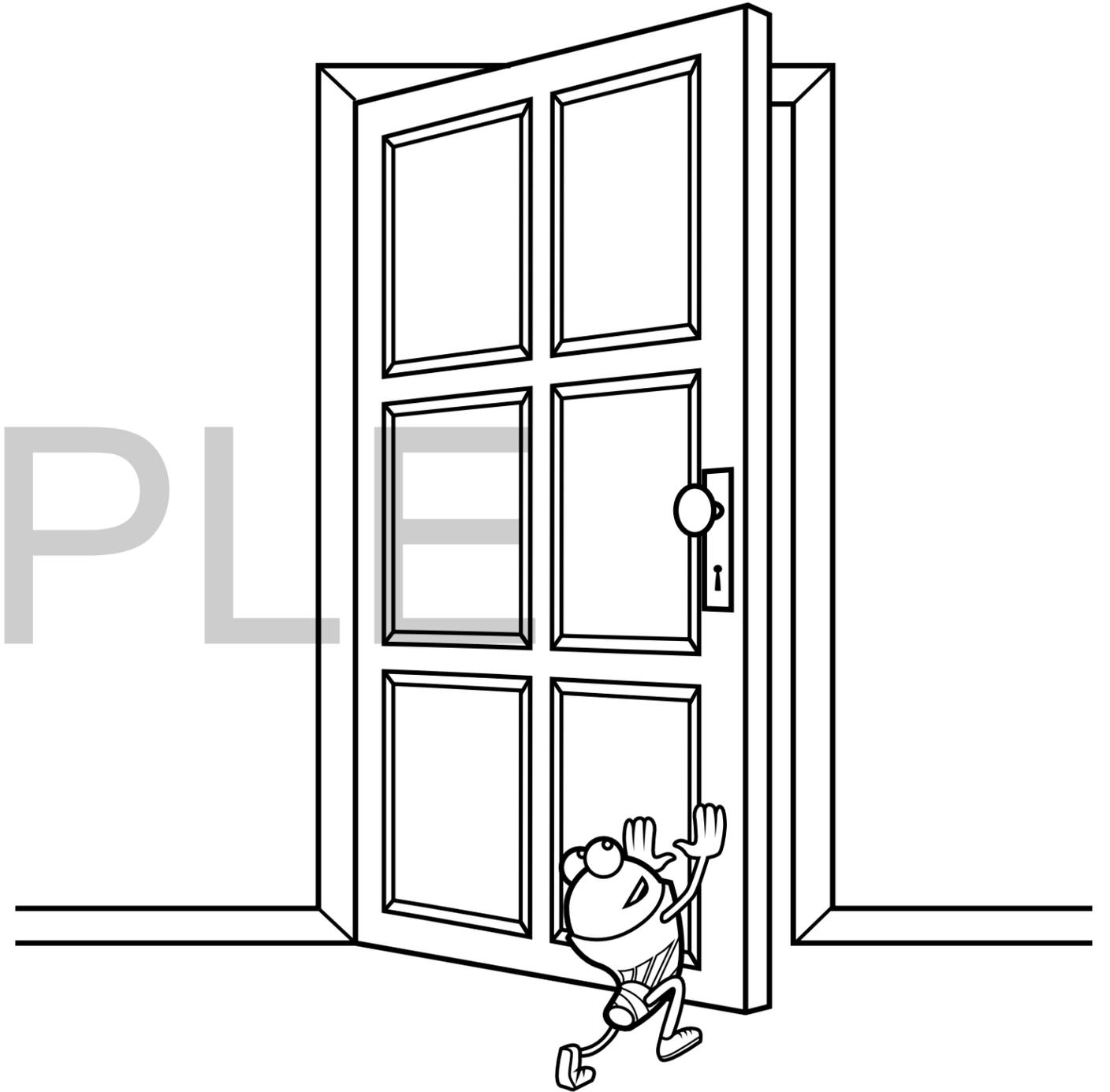
Stadium Scoreboards



LEDs are often used for street lights. Can you finish this maze by staying in the areas that are lit by LEDs?



Using LED bulbs is a great way to save energy, but there are lots of other ways that we can save energy around the house.



You can start right at your front door. Remember to close the door when you come in or go out. That way the air that's in the house stays in.

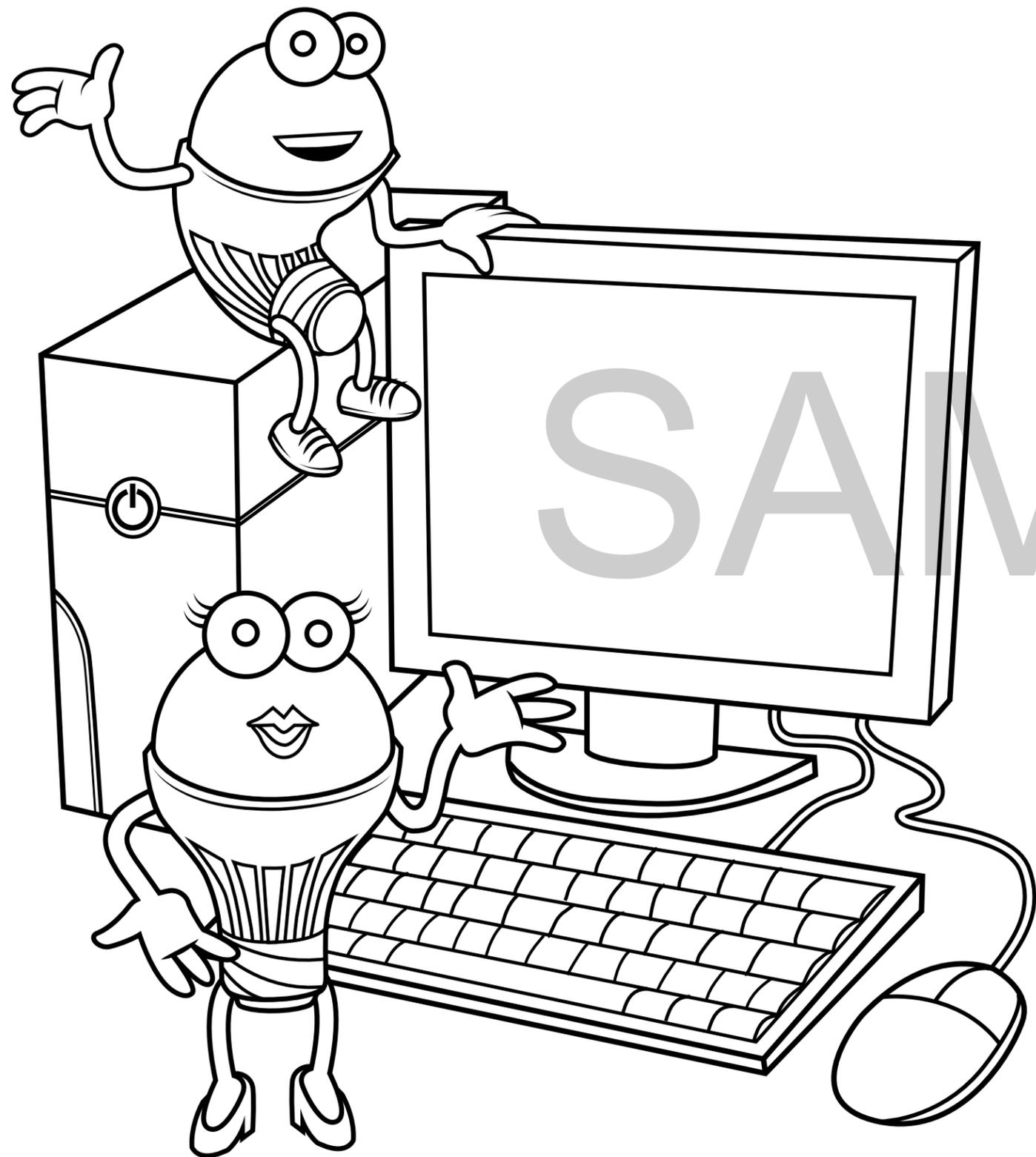
A great way to save energy is to turn off the TV when you're done using it.



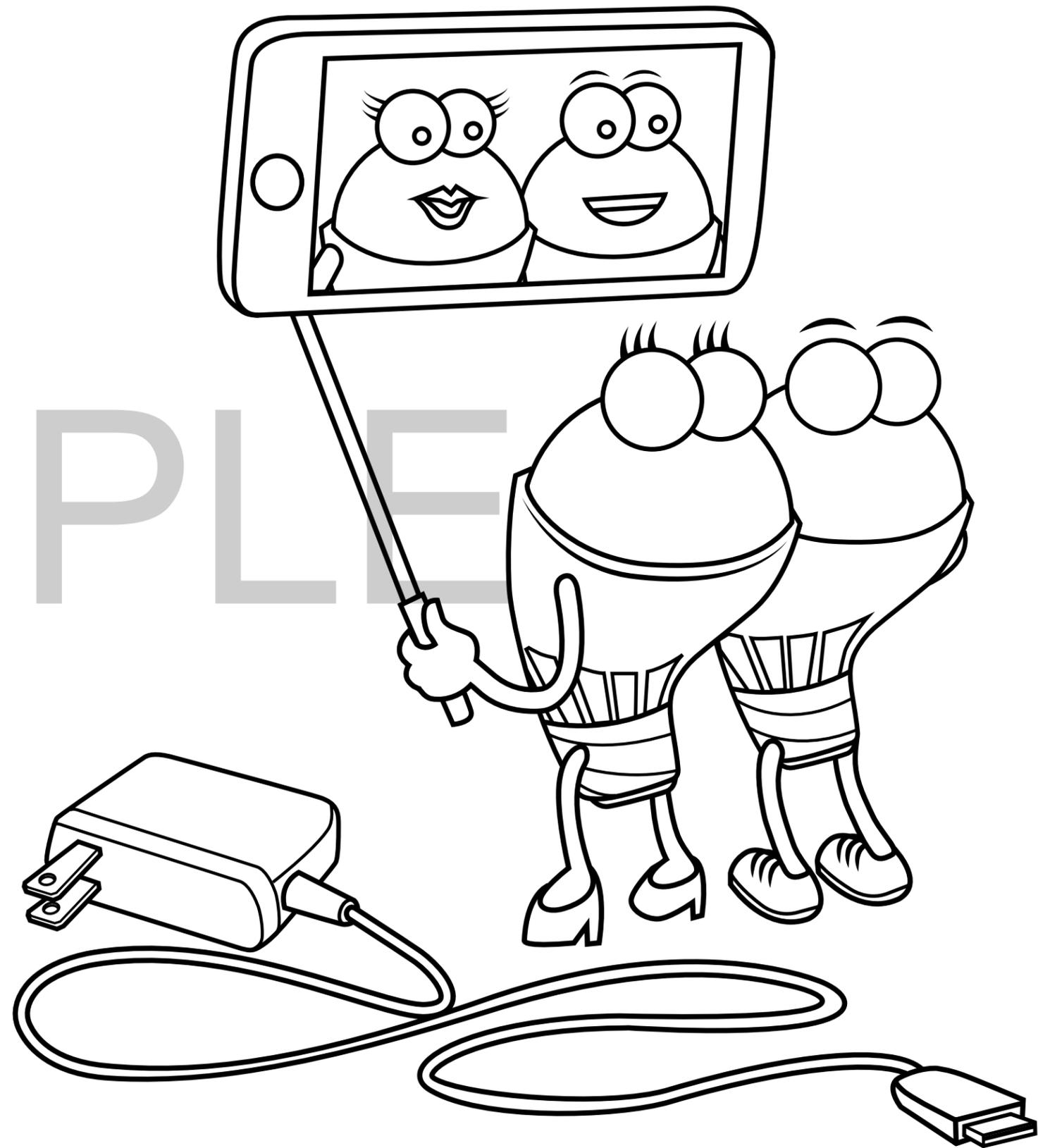
The same goes for your video games.



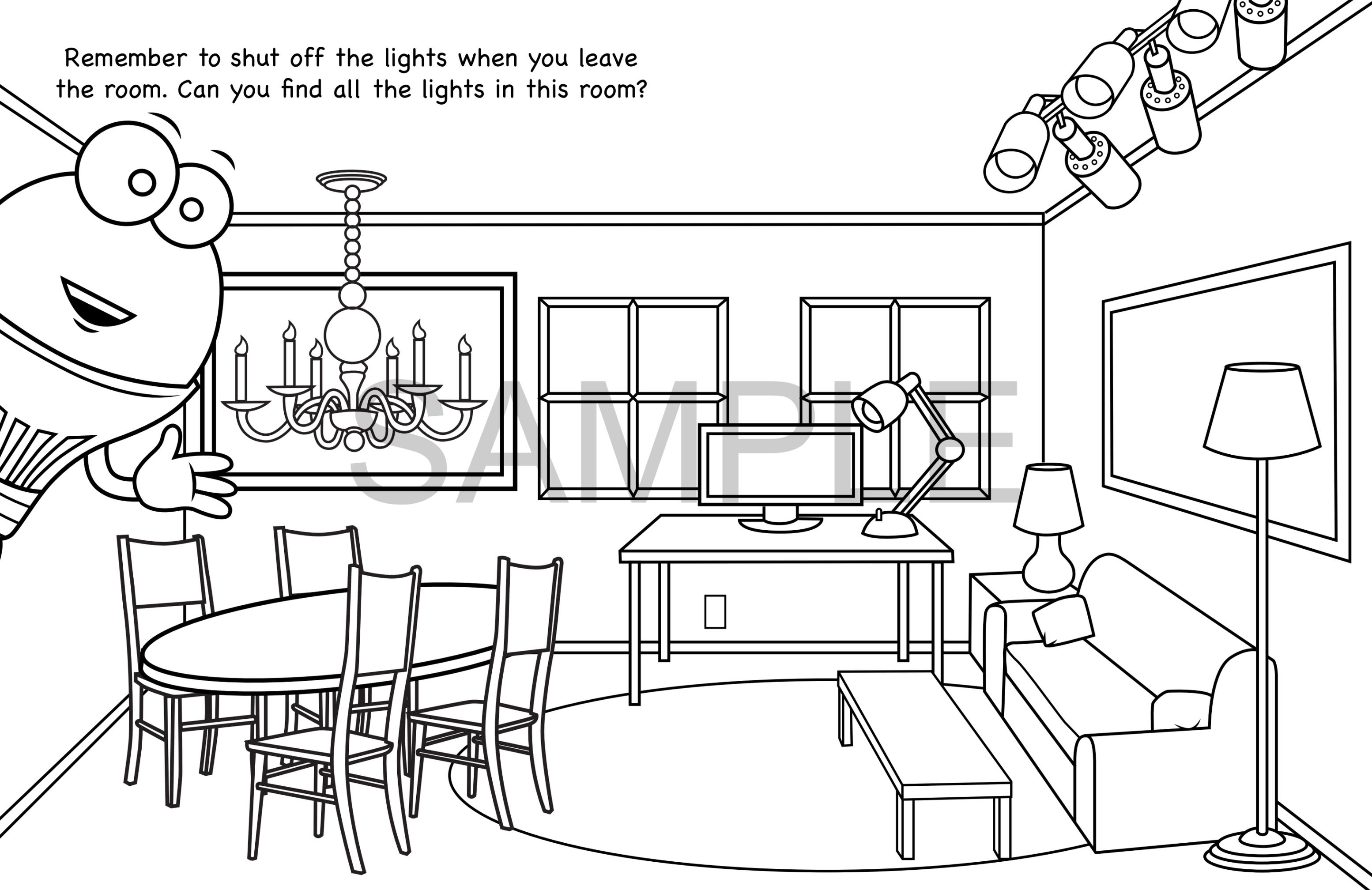
Computers, tablets, phones, and other handheld devices use lots of energy. So when you're done with the computer, turn it off.



And when your phone is done charging, take the plug out of the wall so it stops sucking power.



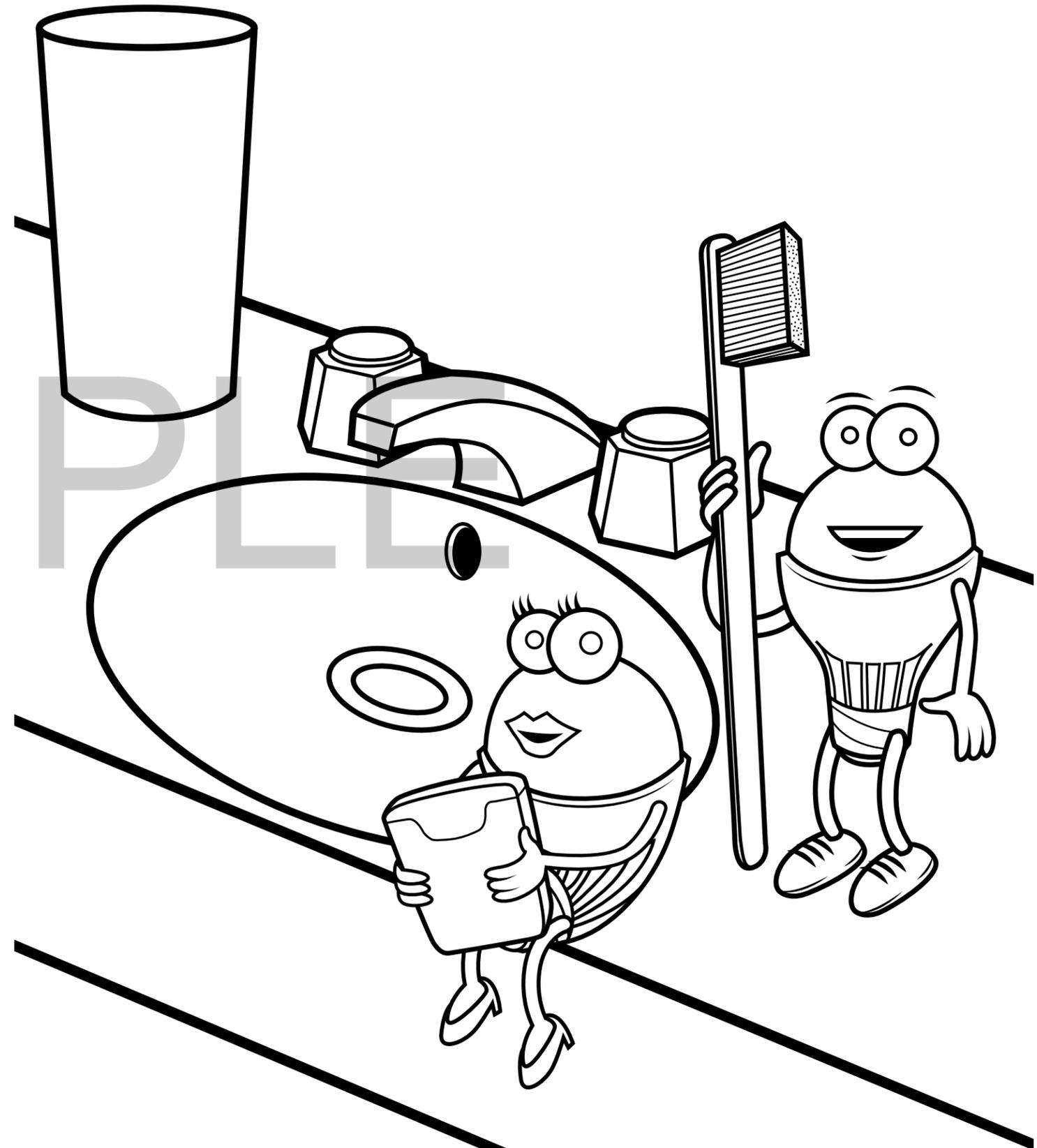
Remember to shut off the lights when you leave the room. Can you find all the lights in this room?



Your fridge uses a lot of energy, especially when it's open! Think about what you want before you open up the fridge. That keeps the cold air in!



Another great way to save energy is by saving water, so turn off the faucet while you brush your teeth.



Bye, kids, and remember...

Let's Save Energy Every Day!

