

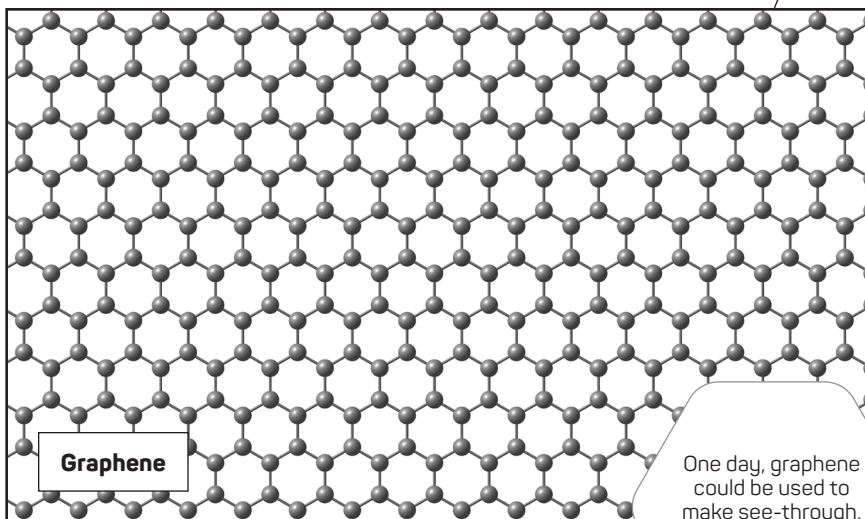
Draw a Circuit

Let's experiment with graphite!

Use a pencil to color in this box

Graphite conducts electricity!

Graphite, or pencil lead, is a mineral made of many layers of carbon stacked on top of each other. Graphene is also made up of carbon atoms. It's only one atom thick—that's a fraction of a nanometer! (A nanometer is a billionth of a meter.)



One day, graphene could be used to make see-through, bendable electronic displays!



Watch it! Nobel Winning Experiment
You can find the video on YouTube

Name: _____

Mystery Shapes

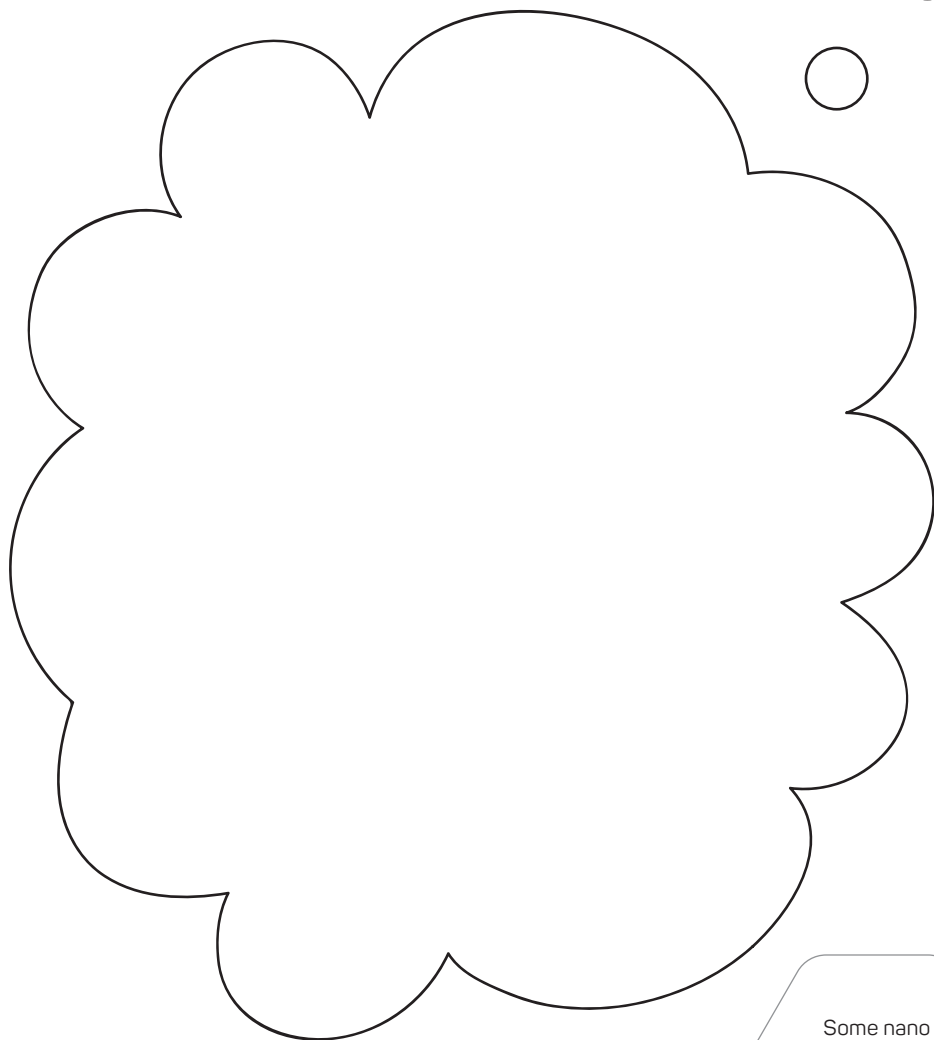


What do you feel in the bag?
Draw a picture!

When you feel an object and draw it, you're modeling the way a **Scanning Probe Microscope** works. This special tool "feels" a nanoscale surface and makes an image of it.

Imagine Yourself as a Nano Scientist!

Nano scientists do many different things! They create new fabrics, tiny robots, medical devices, better computer chips, food ingredients, water filters... and much more!



FOLD HERE



Draw yourself inside the suit. What tiny things could you invent? What big problems could you solve?



Some nano scientists wear special suits to help keep their labs super clean.

A single particle of dust can destroy an entire nano-sized device!



Watch it! What Happens in a NanoLab?
You can find the video on YouTube.