

LIGHT-UP TERRARIUM

NEXT LEVEL CHALLENGES!



NAME:

1 DRAW A DIAGRAM OF A PLANT

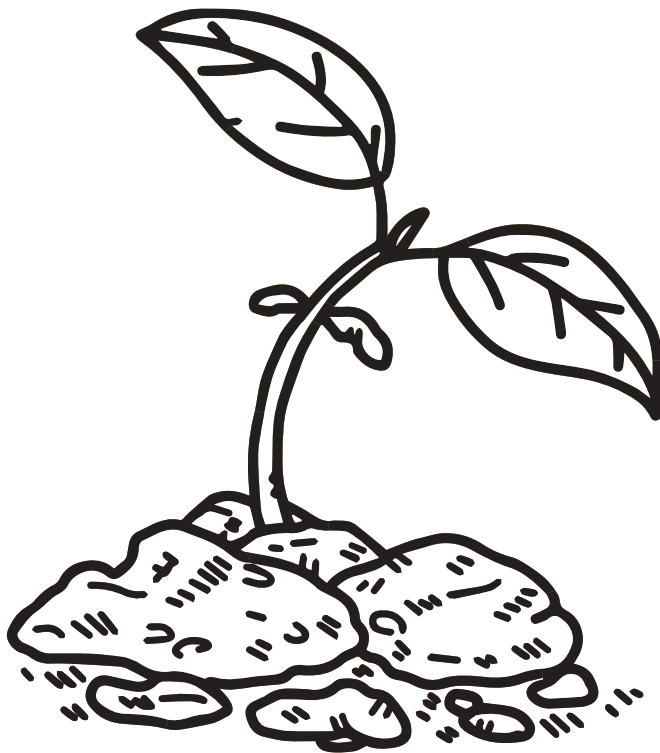
You will need:

Markers or colored pencils

Paper

Here's how:

1. Do some research in library books or on the Internet to find out more about the parts of a plant.
2. Draw a diagram of a plant on your paper, labeling the different parts:
 - Roots
 - Stem
 - Leaf
 - Flower
 - Fruit or seeds



2 A GLOWING KITCHEN

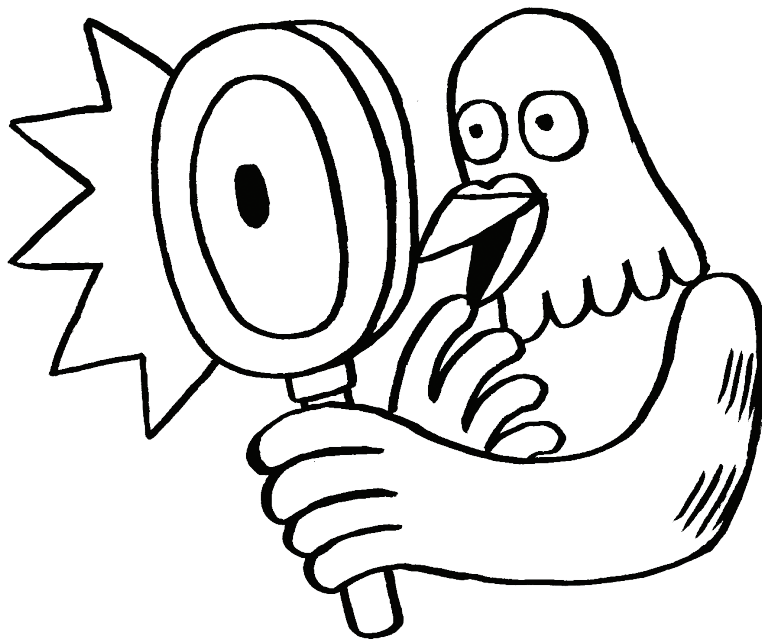
You will need:

UV LED string lights

NOTE: Be sure to ask an adult for help, especially before handling any chemicals, including cleaning products

Here's how:

1. Turn on your UV LED string lights
2. Turn off the lights in your kitchen. It is best to do this experiment at night, so that the room can be as dark as possible
3. Search the kitchen for things that glow under the black light. Some common florescent kitchen items include eggs, turmeric, olive oil, and honey. You may even be able to find spots on the counter where these things have been spilled
What else can you find?



3 INVISIBLE INK

You will need:

UV LED string lights

Petroleum jelly

Paper

Paint brush

Disposable bowl or cup

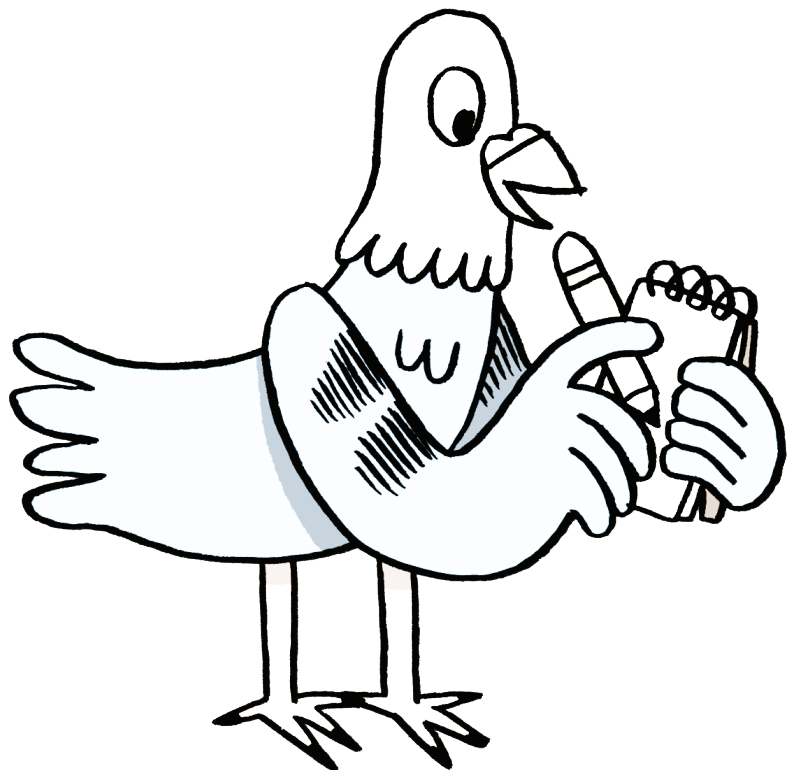
Optional: vegetable oil

Here's how:

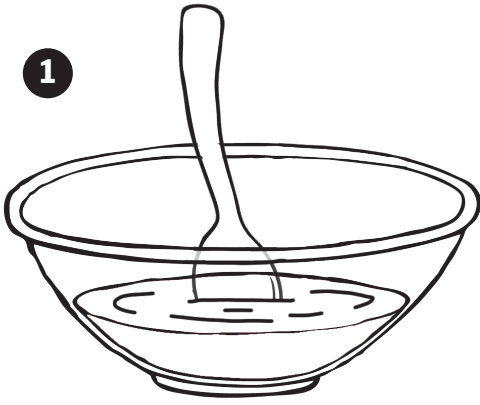
1. Spoon some petroleum jelly into the bowl or cup.
2. Dip a paintbrush into the jelly. You want it to coat the brush, but don't load the brush up so much that it will be hard to write with.
3. Paint your secret message or picture onto the paper. If the jelly is too thick to work with, you can add mix in a little bit of vegetable oil to thin it out.
4. Turn off the lights and turn on your UV LED string lights. Shine them on your paper. What do you see?

Want more? Try the same experiment again, using one of these liquids instead of petroleum jelly:

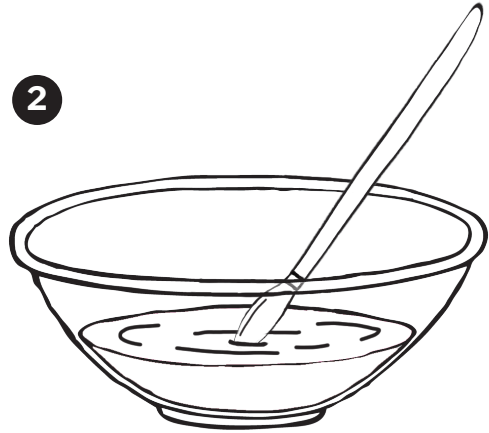
- Lemon juice
- Soap
- Tonic water



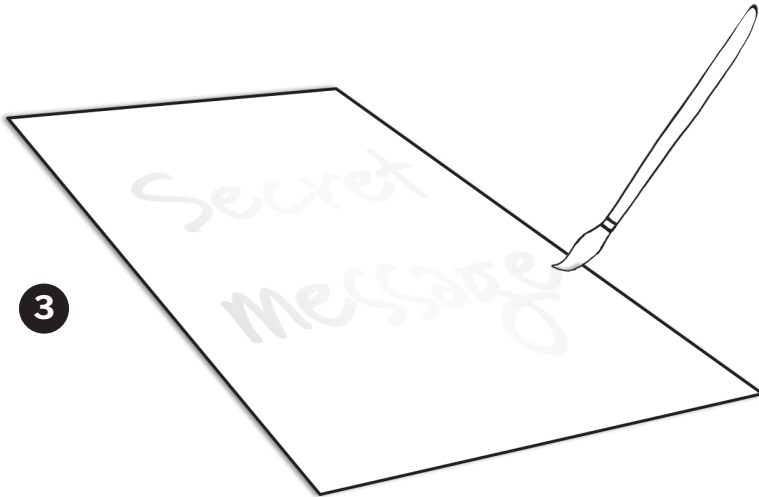
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