

Science Resource Packet

- Grades 5th-9th
- Scientific Method
- Experiment Notebooking Pages
- Vocabulary + Written Narration
- Ecology
- Biology
- Botany
- Astronomy



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Questions + Comments:
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Scientific Method: Step-by-Step

1. ASK A QUESTION. What problem are you trying to solve? What are you seeking to learn, prove, or identify? Can this question be tested?

2. DO BACKGROUND RESEARCH. What have you already learned that helps narrow/broaden your question? Has your question changed in some way? Make notes about important details that you need to remember as you move forward, making sure to record your sources. Include ideas on what might be an effective way to test your hypothesis.

3. STATE YOUR HYPOTHESIS. What do you THINK will happen as you conduct your experiment? What would be interesting or shocking? What alternate possibilities might you expect?

4. TEST YOUR HYPOTHESIS BY DOING AN EXPERIMENT. Is your experiment fair? Be sure to only test ONE thing at a time, in order to be able to accurately observe cause and effect. Record the process of your experiment along with any alterations as you try different variables. If possible, repeat your experiment multiple times to make sure the outcome holds true.

5. ANALYZE YOUR DATA AND DRAW A CONCLUSION. What happened in your experiment? Did the outcome align with your hypothesis? Why or why not? What might have been some alternate methods to test your hypothesis? If your hypothesis was not supported, consider going back, stating a new hypothesis and testing it. Testing, rehypothessing, and retesting is the process that scientists walk through over and over again.

6. COMMUNICATE YOUR RESULTS. You might use a tri-fold board to display the process and results, utilize technology, or write a research paper. Include all steps, challenges, and works cited in preparation.

My Experiment: _____

1. What is your question?

2. Important research notes:

3. State your hypothesis:

4. Describe your experiment. List the materials, setting, and procedure.

5. List your observations, challenges, and conclusions here. If you choose to state a new hypothesis to test, begin a separate form for that experiment and make a note here.

6. Follow your teachers instruction about how to communicate your results. Use the space below or other materials, as directed.

My Experiment: _____

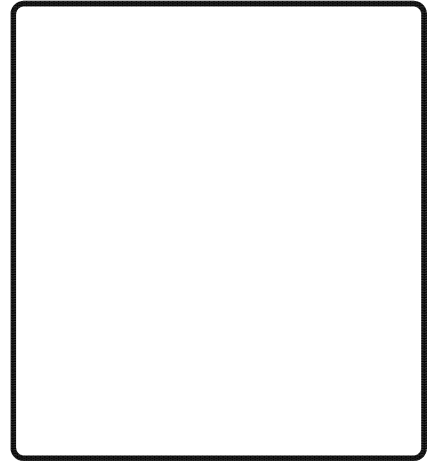
What I expect to happen:



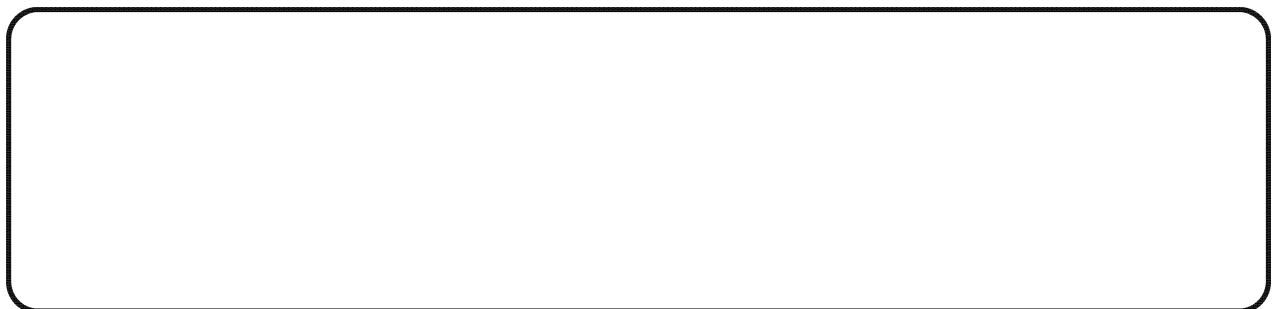
My materials:

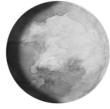


My experiment process below, in 3 phases:

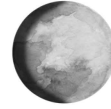


My results:





Astronomy



My Vocabulary

1. _____

2. _____

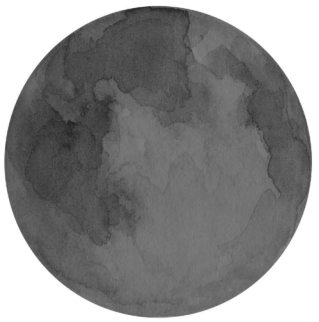
3. _____

4. _____

5. _____

My Written Narration

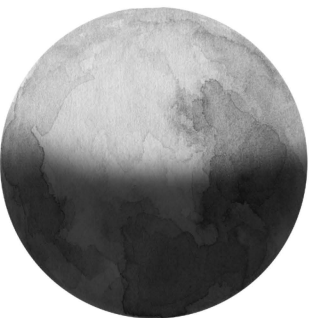
Reading: _____ My Rating: _____



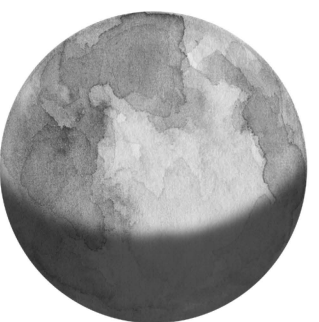
new moon



waning crescent



last quarter



waning gibbous

Phases of the Moon



full moon



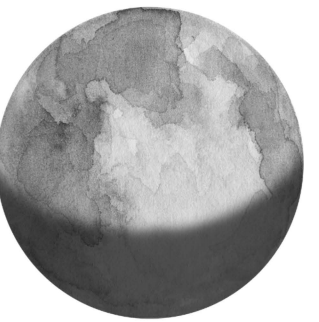
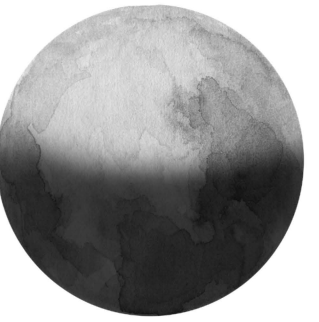
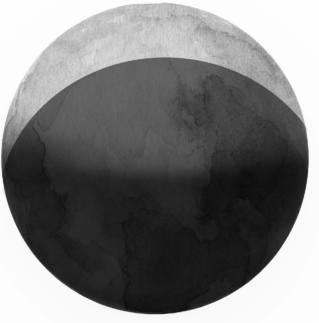
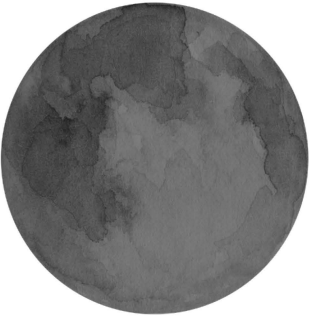
waxing gibbous



first quarter



waxing crescent

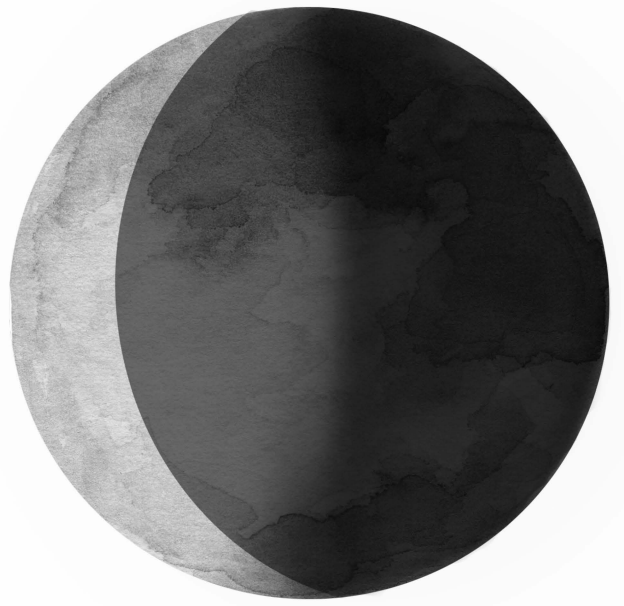


Phases of the Moon

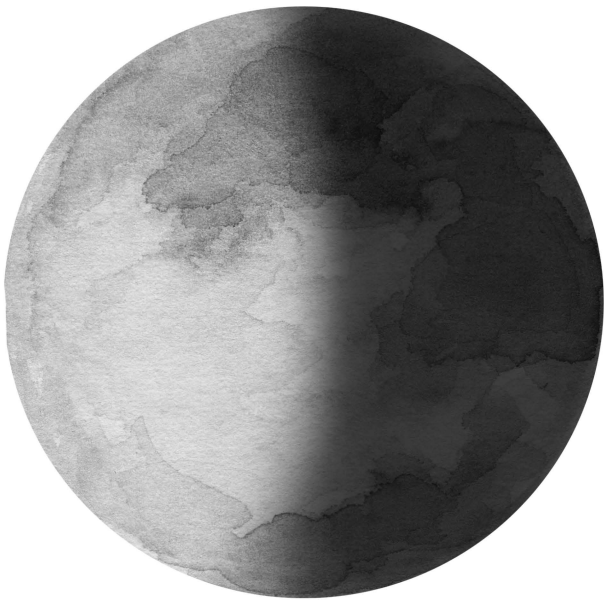




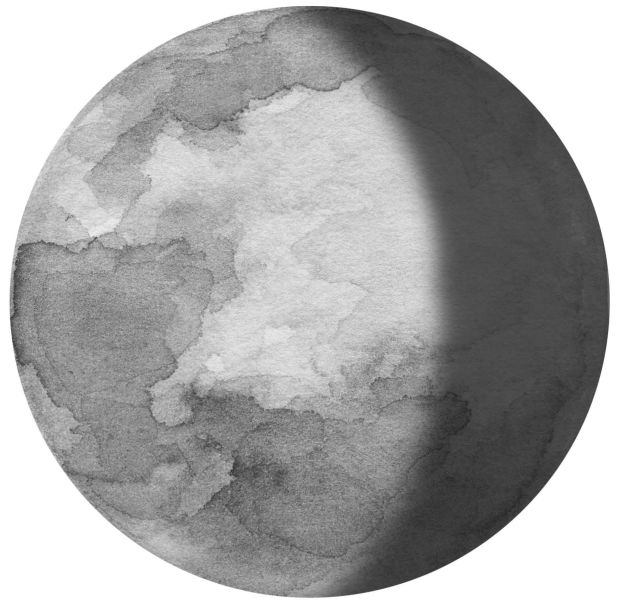
new moon



waning crescent



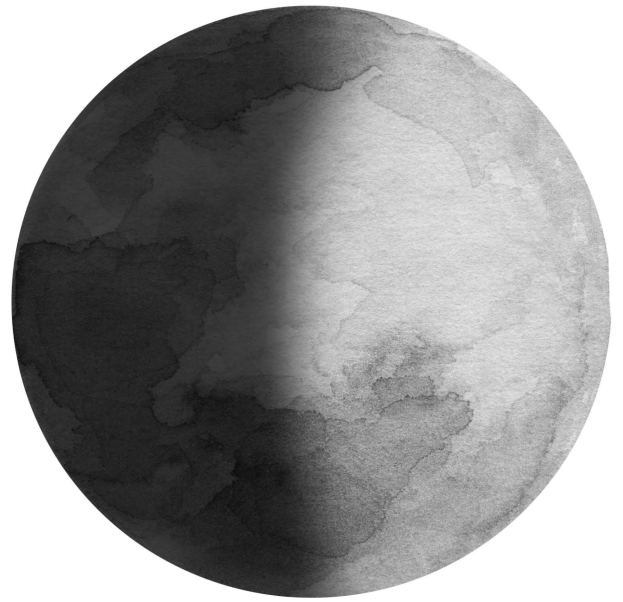
last quarter



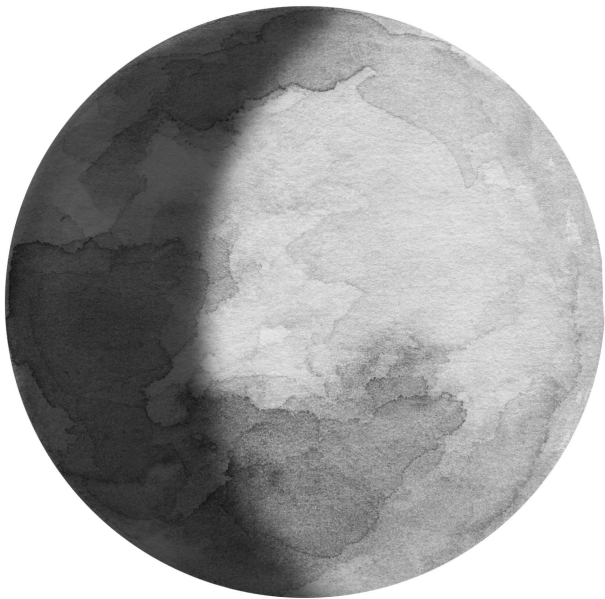
waning gibbous



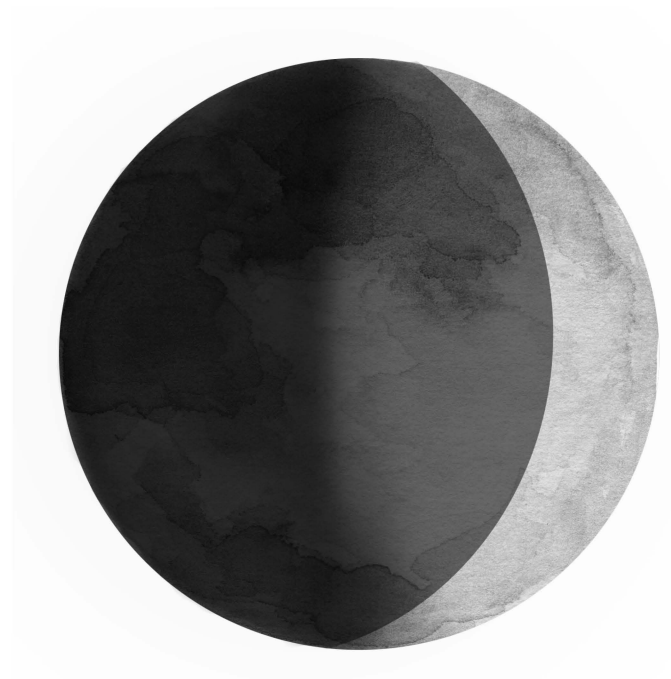
full moon



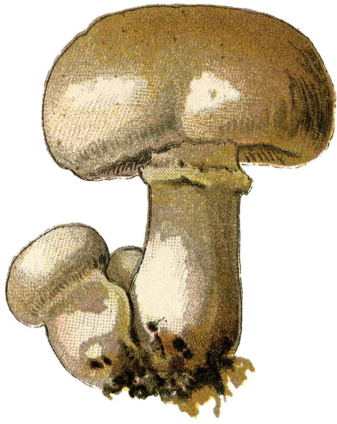
first quarter



waxing gibbous



waxing crescent



Button Mushroom



Chantarelle



Fly Agaric



Gilled Mushroom



Morel



Porcini

Mushrooms



Psilocybe



Russula



Shitake



Botany



My Vocabulary

1. _____

2. _____

3. _____

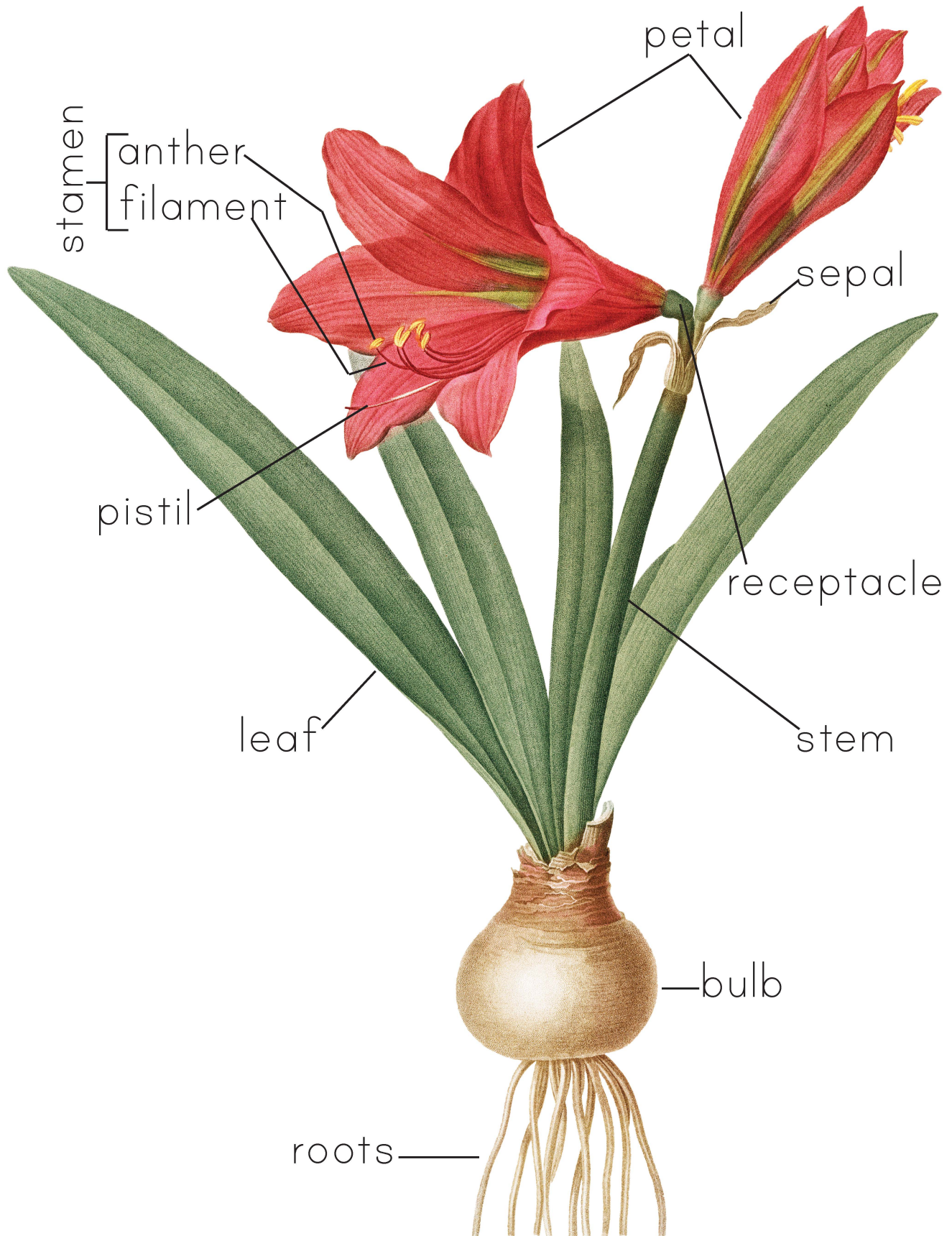
4. _____

5. _____

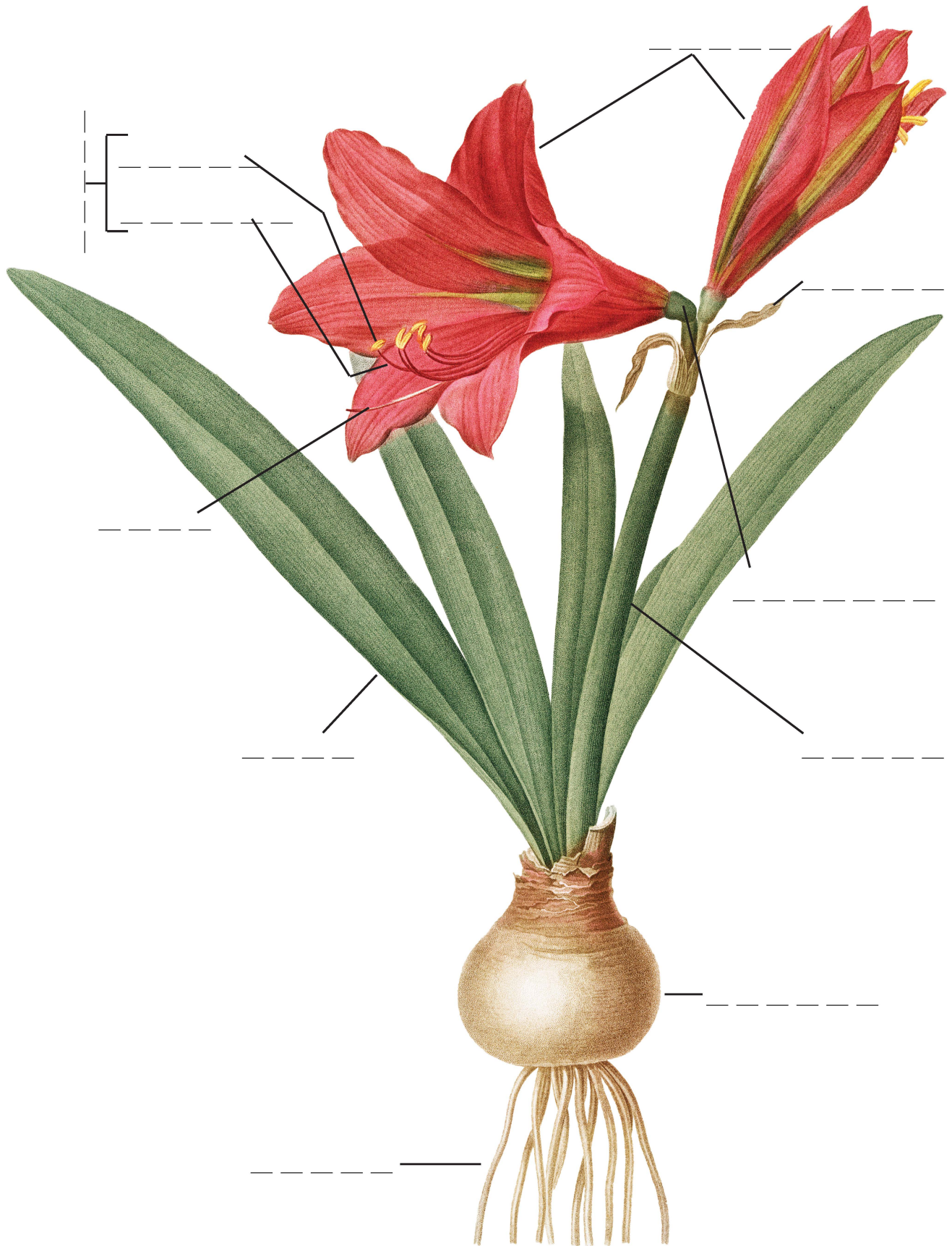
My Written Narration

Reading: _____ My Rating: _____

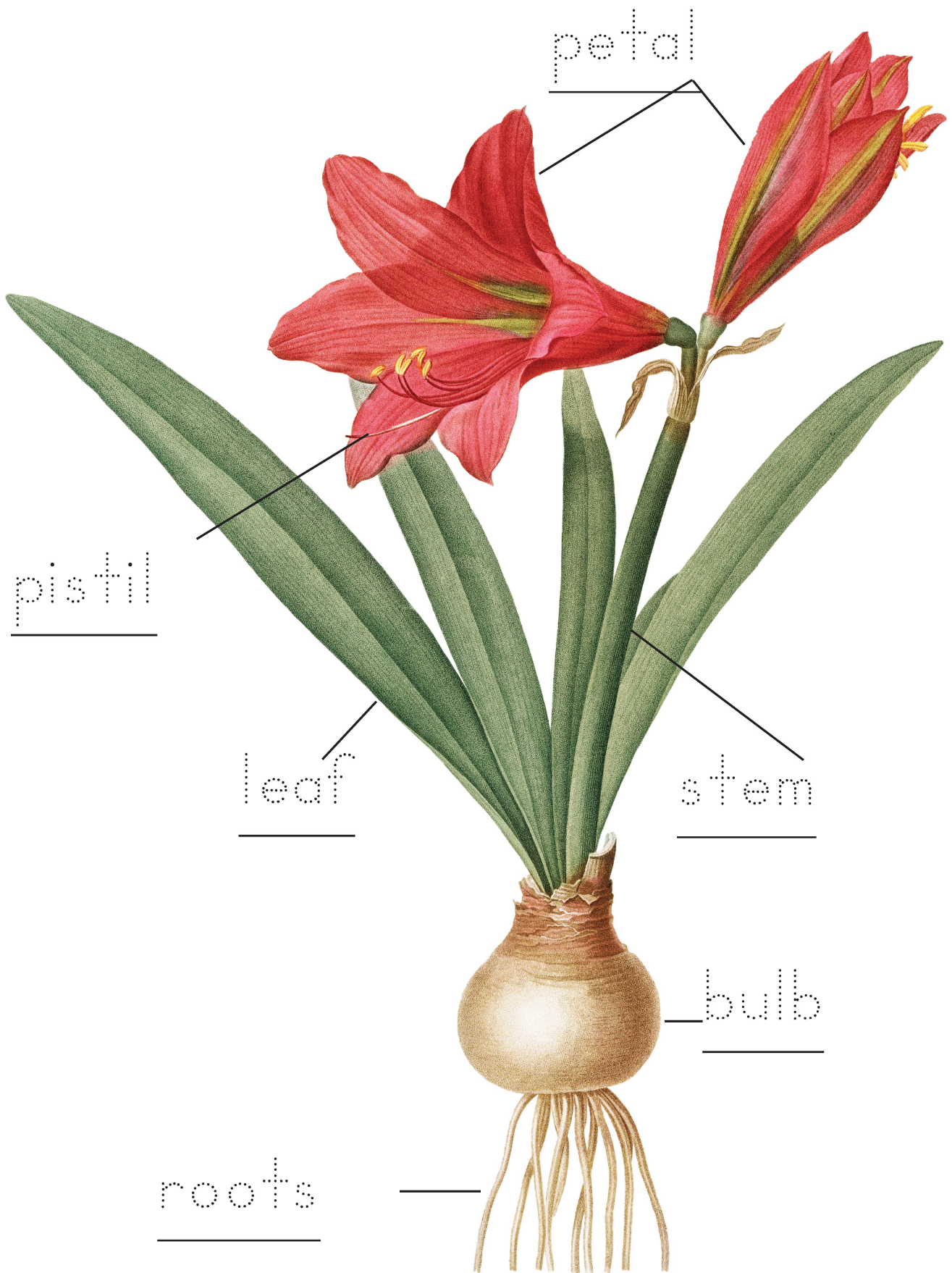
Parts of a Flower



Parts of a Flower



Parts of a Flower





Ecology



My Vocabulary

1. _____

2. _____

3. _____

4. _____

5. _____

My Written Narration

Reading: _____ My Rating: _____



Turn off the water while you brush your teeth.
Unplug electronics when not in use.
Take short showers.



Bring your own shopping bag.
Recycle batteries.
Use rechargeable batteries.
Separate and recycle all garbage.
Have a compost bin.

Opportunities to Conserve



Utilize renewable energy sources.
Turn off the lights when you leave a room.
Turn the thermostat up.



Grow your own food.
Research first, and buy from companies that have conscientious conservation practices.
Buy local.
Buy in-season produce.



*Reduce. Reuse.
Recycle.*