

Lesson 9: Micrographia Project (Day 1)

OPENER

- ❖ Imagine you live in the 1600's. You are lucky enough to have a microscope, an invention that has just recently been improved! You have the opportunity to look more closely at objects around you. What objects would you like to look at? Write down a few ideas.

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1. Today you will have class time to work on your project. Use your class time to look at different things under the microscope, make careful drawings, and take notes about what you see.
2. What other things would be interesting to look at under the microscope? With your teacher's permission, you can bring them to class.
3. After your drawings and descriptions are done, begin working on your cover.

Science Project: *Micrographia*

You are an explorer of small things in the mid 1600's! Choose your name and the place. As Robert Hooke did, use the microscope to explore. Put your drawings and observations together in a book called *Micrographia*.

- Cover:** Include the title *Micrographia* and your chosen name. (Put your real name and period on the back cover!)
- First page:** Include either a relevant quote or a dedication.
- Drawings and Descriptions:** Include 6-10 drawings of things you've observed under the microscope. Draw carefully and accurately, and use color wherever applicable. Write descriptions and commentary about each of your drawings.
- Microscope diagram:** Include a drawing of the microscope you used with the parts labeled.

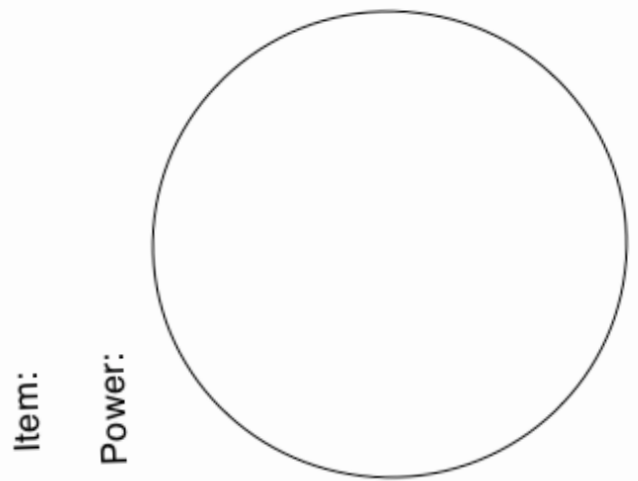
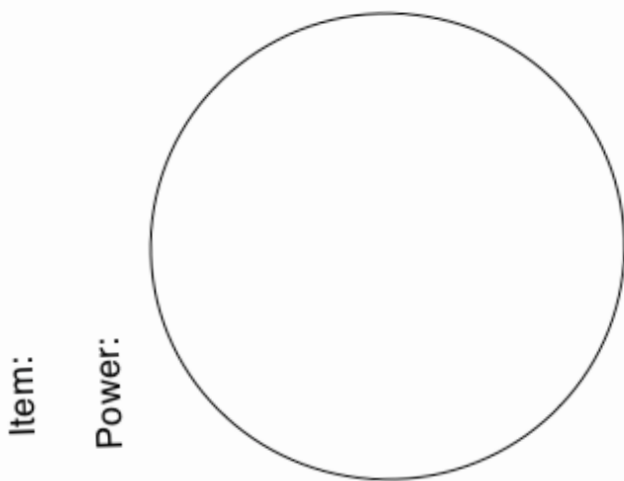
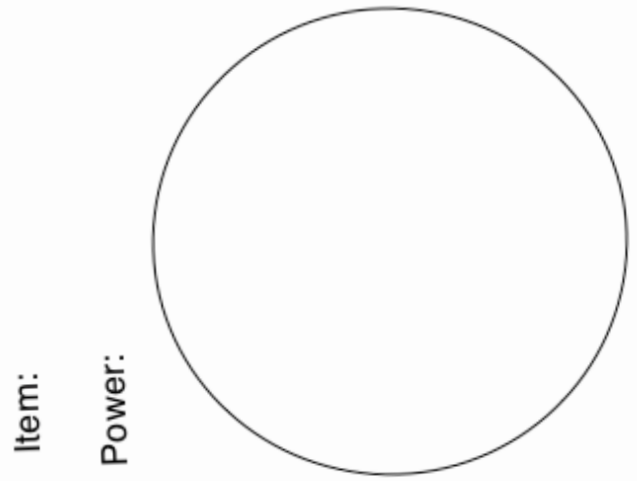
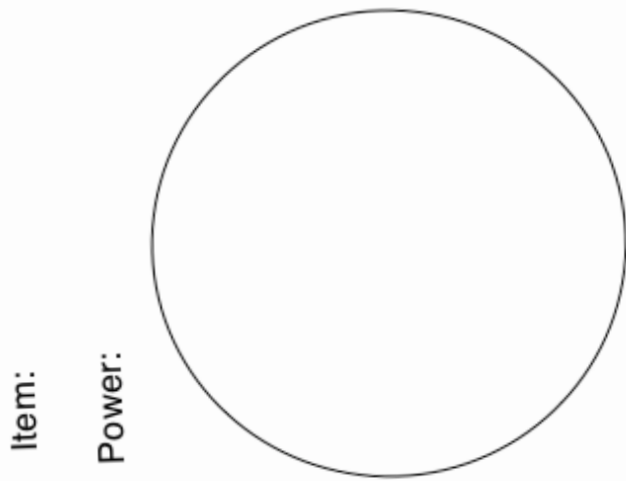
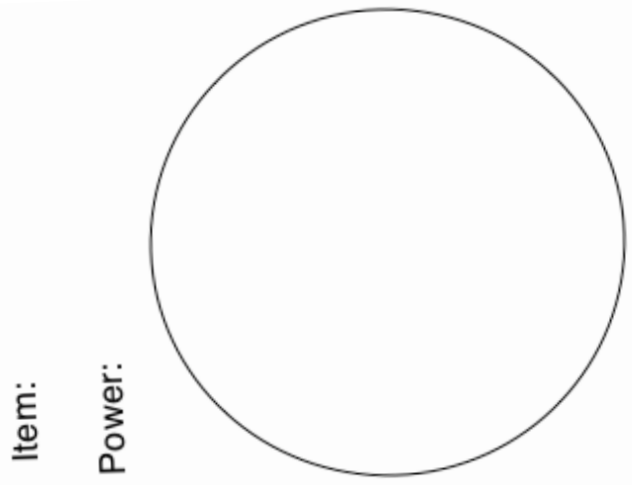
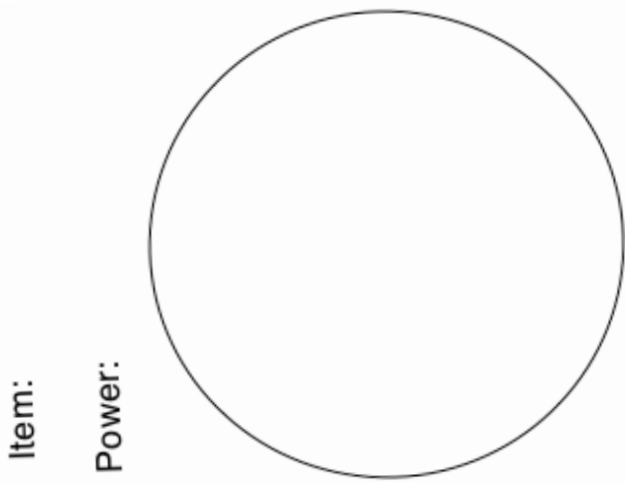
- **Attention to detail:** Be careful and detailed in your drawings!
- **Interesting commentary:** Be inventive! Create an imaginative character.
- **Effort:** 6 drawings is the minimum.

Rubric

Each part:	For full credit
Drawings (40%)	-at least 6 total drawings -close attention to detail and neat -color, where applicable *more drawings, unusual choices, extra detail and neatness
Written Commentary (40%)	-complete sentences -neat handwriting, done in pen -clearly describes the drawing and the findings *shows creativity and curiosity
Microscope Drawing (10%)	-neat diagram of the microscope used -all the parts are correctly and clearly labeled *diagram is colored: either color-coded OR lifelike colors chosen
Creativity and Neatness (10%)	-the cover is creative and book is neatly bound (all parts intact) -the cover has the name of the book clearly printed as well as the author's name (your name and period go on the back) -overall project is neat *extra creativity is shown in the writing, drawing or how the book is made

* to receive the maximum points

Circles Template



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EXTENSION

- ❖ Research the history of the lens and of the microscope. How long ago was each one invented?

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HOMEWORK

- ❖ Work on your Micrographia project. Cut out each circle and paste it on a different page.
- ❖ Color your drawings. Rewrite your descriptions more neatly and completely.
- ❖ Bring any additional things you want to look at under the microscope. (You will need your teacher's permission.)