

Name _____ Date _____

Making a Telescope

Procedure

1. Make a telescope. Slip a smaller tube inside a larger tube to make a telescope tube. Tape lens A, the larger, thinner lens, to the larger end of the telescope tube. Tape lens B, the smaller, thicker lens, to the smaller end of the tube.

2. **Observe** Without using the telescope, observe three objects that are across the room. Record how the objects look.

3. **Record Data** Use the telescope to observe the same three objects. Hold the smaller end of the telescope to your eye and look through the lens. Slowly slide the larger tube forward and back until you can see each object clearly. Record how the objects look.

4. **Compare** Exchange telescopes with a partner and repeat step 3.

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Conclusion

1. **Compare** What differences did you notice when you viewed the objects with just your eyes, and then with the telescope? What differences did you notice when you viewed the objects with your partner's telescope?

2. **Infer** Why do you think telescopes are useful to scientists who study space?

Experiment

Guided Inquiry

With an adult, take your telescope outside at night.
Observe the Moon with just your eyes. Then use your telescope to observe the Moon.
