

Star Gazing

Procedure

1. Cover your desk with cardboard. Place a sheet of black paper over the cardboard. Place a star pattern sheet on top.
2. **Use Models** Make a star pattern. Use a sharp pencil to poke a small hole through each dot on the star pattern sheet. Push hard enough to make holes in the black paper. Then remove the star pattern sheet.
3. **Use Models** Place one end of a tube over the star pattern you made. Use the tube to trace a circle on the black paper around the star pattern. Make sure that all of the star pattern is within the circle. Cut out a circle that is slightly larger than the one you traced. Tape it onto one end of the tube.
4. **Observe** Look through the open end while holding the tube up to the light. Examine the star pattern. Now look through the tube of a classmate with a different star pattern. Use the space below to draw what you see.



Conclusion

Write the answers to the questions below.

1. **Compare** How were the two patterns similar? How were they different?

2. **Ask Questions** Write two questions that you could ask a scientist who studies stars.

Investigate More!

Be an Inventor Invent a different way to model star patterns. What materials would you use? How would the model work? Use labeled drawings in your description.