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Imagine the universevith a u } o telescope!

Materials Needed:

Paper towel tube, scissors, tape, decorating materials (colorful paper, stickers, sequins, etc.), Lens Caps Printat

\*You can make your own lens caps by drawing on a piece of paper or cutting out pictures from magazines. The visible image should be a circle about 1.75 inches (4.5 cm) in diameter, with a 0.5 inch (1.25 cr border so it will fit over the end of the tube.

Instructions:

Step 1 Decorate a paper towel tube for your telescope. Use colorful paper, markerstickers, sequins, or whatever you have availableeave 1 inch (2.5 cm) clear of decorations at one end of the tube.

Step 2 Cut out each of the 6 lens caps. Cut along each dotted line.

Step 3 Fold the paper flaps to fit the lens cap over the top of the tube. Make sure the picture side faces into the tube! Tape the flaps together so that you can remove the lens cap and it keeps its fitted shape. Repeat for each lens cap.

Step 4 Place a lens cap on the end of the tubeok through the other end. The tube lets light in, which allows your eyes to see the picture.

Explore outer space and wildlife enes with the different lenses!

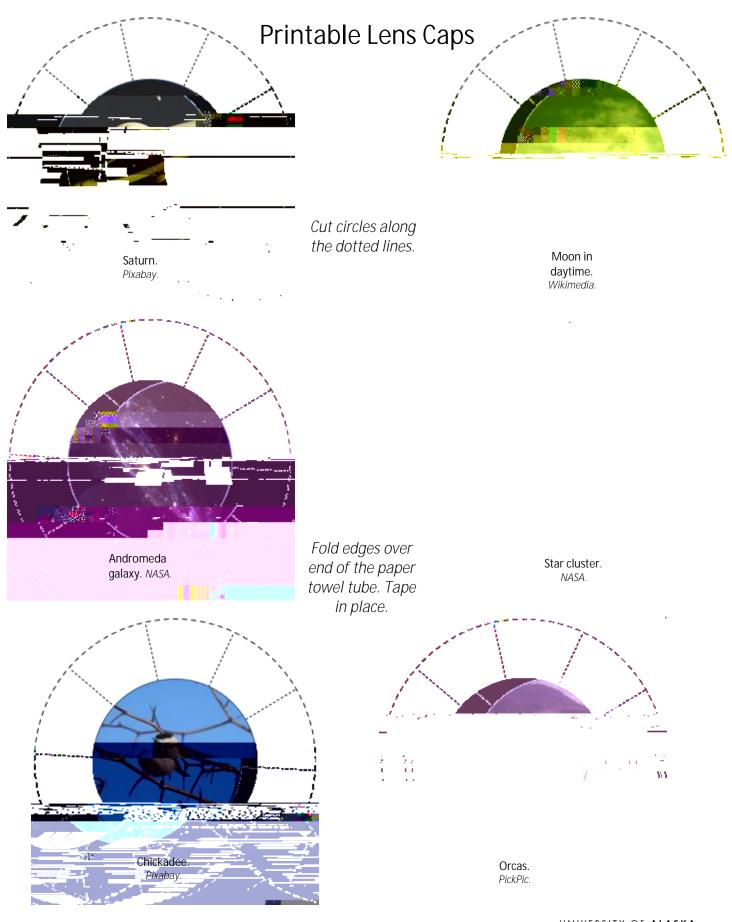
Use the toy telescope without a lens and practice finding objects that are far away!







## UAMN Virtual : µ v ] } CE µ Exploration



## **Discover Telescopes**

## How Do Telescopes Work?

We are limited in how far we can see with just our eyes alorse. objects get farther away from us, they become smaller and darker. Our eyes cannot see small amounts of light that are far away. Telescope concentrate light and magnify objects so that we can see them at a much farther distance.

