



MACY'S STARS TELESCOPE

TELESCOPES ARE USED TO GET A CLOSER LOOK AT OBJECTS FAR AWAY IN THE SKY. YOU CAN DISCOVER HOW A TELESCOPE WORKS BY USING TWO CURVED LENSES FROM READING GLASSES. ONCE YOU'VE MADE YOUR TELESCOPE, USE IT TO VIEW OBJECTS IN YOUR CLASSROOM OR AT HOME. DON'T FORGET TO DECORATE YOUR TELESCOPE TO MAKE IT YOUR OWN!



REQUIRED SKILLS:

Coloring, cutting

SUGGESTED MATERIALS:

2 empty paper towel rolls (with one bigger than the other), tape, scissors, a pair of reading glasses with a magnification of at least 2x

QUESTION TO PONDER:

What do you think scientists look at through their telescopes?

DIRECTIONS:

- 1 Have a grown-up carefully remove the lenses from the reading glasses.
- 2 Glue or tape one lens to one end of the smaller paper towel roll, convex side facing out.
- 3 Repeat with the other paper towel roll and the other lens.
- 4 Insert the smaller paper towel roll inside the bigger one with the lens facing out.
- 5 Look through the smaller lens and focus by moving the smaller roll back and forth.

EXTENSIONS OF ACTIVITY

S.T.E.A.M.

ENGINEERING - AFTER BUILDING YOUR TELESCOPE, THINK OF DIFFERENT WAYS TO IMPROVE IT. (MAYBE TRY BUILDING A STAND FOR IT!)