

# Counting Stars

## A Citizen Science Project

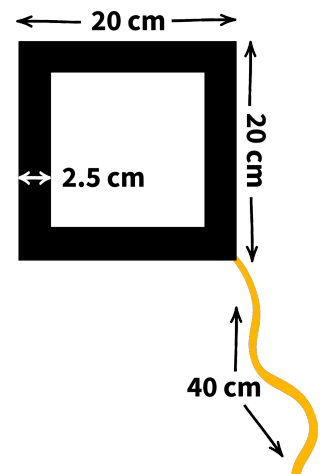
Help us identify where the light pollution is in our community by doing a simple project that involves counting stars.

### YOU WILL NEED:

- Cardboard or construction paper
- Scissors
- String
- Tape
- Ruler
- This worksheet
- Pencil
- A dark clear night with no Moon (wait at least an hour or two after sunset)

### STEP 1

Build a picture frame and attach a string to it using tape. It is important to use the measurements in this image.



### STEP 2

- Go outside when it is totally dark (when the Moon is NOT visible).
- Tape one end of the string to your shoulder.
- Hold the frame in front of you so the string is tight.
- Look through the frame at the stars.
- Hold the frame steady and count the stars you see inside it.
- Move the frame to a different spot in the sky and count the stars. Do this 5 times and record your findings.
- Add up the numbers and divide by 5. This gives you an average. Then multiply by 40 and you get an estimate of the number of stars you can see in your sky.
- Also count how many lights you can see from your yard and around you and record it on your worksheet.

### MY FINDINGS

SPOT 1: \_\_\_\_\_

SPOT 4: \_\_\_\_\_

SPOT 2: \_\_\_\_\_

SPOT 5: \_\_\_\_\_

AVG x 40: \_\_\_\_\_

SPOT 3: \_\_\_\_\_

AVG: \_\_\_\_\_

# OF LIGHTS: \_\_\_\_\_

### STEP 3

Log your findings in this form:



*Starlight*  
FESTIVAL