

A STEM in the Park

Take Home Activity

STEM

in the **PARK**™

Science, Technology, Engineering, and Mathematics

Homemade UV- Visible Flashlight

What You Need

- Sharpies (one purple, one blue)
- Scotch tape
- A dollar flashlight

What To Do

1. Cover the light with a layer of scotch tape (1 piece).
2. Color that piece of scotch tape blue.
3. Let the marker dry.
4. Cover that layer with another layer of tape (1 piece)
5. Let the marker dry.
- 6 Color that piece of scotch tape blue
7. Let the marker tape dry.
8. Cover the piece of tape on the light (2 layers now) with one more piece of tape.
9. Now color it purple.
10. Congrats! You have a Black Light



Continued on back

The Science

The tape works as a filter and filters out the visible light. Now your flash light works like a makeshift UV-Visible Light. Shine it on things around your house and you can see if they are Fluorescent

Additional Notes

<https://www.youtube.com/watch?v=FZ9E5hZMbCA>

This activity is brought to you by Ostrowski Lab/Department of Chemistry

