**Light Play**

**Mixing pigment (paint): color in the circles with highlighters**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Pigment 1 | Pigment 2 | Predict color | Observed color |  |
| Margenta(pink) | Cyan(blue) |  |  |
| Cyan(blue) | yellow |  |  |
| yellow | Margenta(pink) |  |  |
| Margenta, cyan, and yellow |  |  |

How does paint produce color?

Where else do you get colors this way?

**Mixing light: observe finger lights, then draw what you see**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Light 1 | Light 2 | Predict color | Observed color |  |
| red | green |  |  |
| green | blue |  |  |
| blue | Red |  |  |
| Red, blue, and green |  |  |

What is white light made of?

Where else do you get colors this way?

**Invisible Light Part 1: “Blacklight”**

1. What kind of invisible light have you heard of?
2. What is another name for “blacklight”?
3. How do you think the “blacklight” makes the special ink visible?
4. What is “fluorescence”?
5. What would you use “fluorescence” for?

Other activities

Find all the glowing things in the room. Suggestions: Try shining the “blacklight” at highlighter paint, detergents, plastic beads, glowsticks, other glow in the dark objects, etc.