

# 3rd Grade MakerEd Curriculum

## Year-Long Thematic Focus: Color, Light, and Sound

### Guiding Questions:

- How do we see color?
- How do pigment color and light color different?
- What is the light spectrum?
- What are some common sources of light?
- How can we manipulate light?
- How can I make a light?
- What types of sounds are there?
- What are frequency, tone, .....?
- How do I dream up ideas that include color, light, and/or sound?
- How can I plan the creation of projects that include color, light, and/or sound?
- How can I turn my ideas for projects that include color, light, and/or sound into a reality?
- How do I know that my project was successful?
- How can I share my project, how I made it, and what I learned?

Week	Topic
1	Journal Making
2	What is color? <a href="https://www.mensaforkids.org/teach/lesson-plans/introduction-to-color/">https://www.mensaforkids.org/teach/lesson-plans/introduction-to-color/</a>  Primary Colors Complementary Colors Mixing Colors
3	Nature's Pigments - (Using Natural Dyes) - spinach, blueberry, onion skins, beets
4	Nature's Pigments - making natural paints (Using Natural Dyes)
5	shadows
6	Reflection & refraction
7	Shadow boxes (shadow, reflection, refraction)

8	Light & Color
9	Shadow boxes w/ color
10	Pixar Light in a Box Lesson
11	Pixar Light in a Box Lesson
12	Kaleidoscopes
13	Kaleidoscopes
14	Harnessing Light: Light bulbs, type of bulbs
15	Harnessing Light: Basic circuitry (paper circuit)
16	Harnessing Light: Basic circuitry (paper circuit w/ switch)
17	DIY Lamps
18	DIY Lamps
19	DIY Lamps
20	DIY Lamps
21	Types of sounds survey
22	How sounds are made
23	Marble board sound scape
24	drums
25	shakers
26	Rain sticks
27	Rain sticks
28	Plinko boards
29	Plinko boards
30	Wind chimes
31	Wind chimes
32	Music Boxes?
33	Music Boxes?

34	Music Boxes?
35	Cardboard box disco - using sound, color, and light to create mood
36	Cardboard box disco - using sound, color, and light to create mood