

4th Grade MakerEd Curriculum

Year-Long Thematic Focus: Synthesis & Expansion

Guiding Questions:

All of the questions for grades 1, 2, and 3 plus:

How can I dream up ideas that use my knowledge of building, motion, color, light, and sound?

How can I plan for the creation of projects that use my knowledge of building, motion, color, light, and sound?

How can I make my ideas for projects that use my knowledge of building, motion, color, light, and sound into a reality?

How do I know that my project was successful?

How can I share what I made, how I made it, and what I learned?

Week	Topic
1	Journal Making & Building Review
2	Kirigami
3	Kirigami https://www.happyfolding.com/files/Miyamoto-RES_patterns.pdf
4	Cardboard Jacob's Ladders
5	Wood Jacob's Ladders
6	Build a Better Backpack Challenge Examine everything you carry in your backpack. What do you like about your current backpack? What frustrations do you have with your present bag? Design a new carrier that will do the job better.
7	Build a Better Backpack Challenge
8	Build a Better Backpack Challenge
9	Build a Better Backpack Challenge
10	Motion Review
11	Marble Boards
12	Motors & Scribble Bots

13	Windup toy dissection
14	Windup toy remixes
15	Windup toy remixes
16	Light, Color, Sound Review
17	Shadow Boxes - shadow, light, color, reflection, refraction
18	<u>DIY Reading Lamps +</u> Design and Build a reading lamp that gives you enough light to read a paper book in a dark room and that serves some other purpose.
19	DIY Reading Lamps +
20	DIY Reading Lamps +
21	DIY Reading Lamps +
22	DIY Reading Lamps +
23	DIY Reading Lamps +
24	Begin Mini-Golf Challenge
25	Mini-Golf Challenge
26	Mini-Golf Challenge
27	Mini-Golf Challenge
28	Mini-Golf Challenge
29	Mini-Golf Challenge
30	Mini-Golf Challenge
31	Mini-Golf Challenge
32	Mini-Golf Challenge
33	Mini-Golf Challenge
34	Mini-Golf Challenge
35	Mini-Golf Challenge
36	Mini-Golf Challenge

