

The Modeling Curriculum and the NYSS that Apply to Each Activity in Unit 5, the Particle Model of Light

Activity title and number	New York State Standards	
1) Properties of Light Demo & Worksheet 1a: Light Sources	Standard 1	S1 S2.1 S2.3 S2.4 S3.1 S3.3 S3.4
	Standard 6	2.1 2.2 2.4
2) Observing Shadows Lab & Worksheet 1b: Shadows	Standard 1	S1 S2.1 S2.3 S2.4 S3.1 S3.3 S3.4
	Standard 2	1.5
	Standard 4	4.3viii
	Standard 6	2.2 2.4
3) Pinhole Camera and Worksheet 2	Standard 1	S1 S2.1 S2.3 S2.4 S3.1 S3.3 S3.4
	Standard 6	2.2 2.4 4.1
4) Reading 1: Nature of Light	Standard 1	S2.2
5) Quiz 1	Standard 4	4.3viii
6) Light Intensity	Standard 1	M1.1 M2.1 M3.1 S1 S2.1 S2.3 S2.4 S3.1 S3.2 S3.4
	Standard 2	1.1
	Standard 6	2.1 2.2 2.3 2.4 5.1 5.2
7) Worksheet 3: Light Intensity	Standard 6	3.1 5.1
8) Lab: Reflection in a Plane Mirror	Standard 1	S1 S2.1 S2.3

		S2.4 S3.1 S3.3 S3.4
	Standard 4	4.1viii
	Standard 6	2.2 2.4 5.2
9) Worksheet 4: Reflection Problems	Standard 2	3
	Standard 4	4.1viii
10) Quiz Particle Model of Light	Standard 4	4.3viii
	Standard 6	2.1 5.2
	Standard 7	1
11) Optional Curved Mirror Lab	Standard 1	M1.1 M2.1 M3.1 S1 S2.1 S2.3 S2.4 S3.1 S3.2 S3.3 S3.4
	Standard 2	1.1
	Standard 4	4.3viii
	Standard 6	2.1 2.2 2.3 2.4 5.1 5.2
	Standard 7	1
12) Optional Worksheet 5: Curved Mirror Diagrams	Standard 2	1.5
	Standard 4	4.3viii
	Standard 6	2.1 5.2
	Standard 7	1
13) Optional Worksheet 6: Mirror Problems (quantitative)	Standard 1	S1
	Standard 4	4.3viii
	Standard 6	5.1 5.2
14) Refraction Lab	Standard 1	S1 S2.1 S2.3 S2.4 S3.1 S3.2 S3.3 S3.4
	Standard 4	4.3vii 4.3viii 4.3ix

	Standard 6	1.1 2.1 2.2 2.3 2.4
15) Worksheet 7: Particle Model of Light	Standard 1	M3.1 S1 S3.1
	Standard 4	4.3viii 4.3ix
	Standard 6	2.3 5.1
	Standard 7	1
16) Reading: Speed of Light	Standard 1	S2.2
	Standard 2	2 3
	Standard 7	1
17) Quiz: Refraction	Standard 4	4.3viii 4.3ix
18) Optional Lab: Lenses	Standard 1	M3.1 S1 S2.1 S2.3 S2.4 S3.1 S3.3 S3.4
	Standard 4	4.3viii
	Standard 6	2.1 2.2 2.4
19) Optional Worksheet: Lens Diagrams (qualitative)	Standard 1	S3.4
	Standard 4	4.3viii
	Standard 6	2.1
20) Optional Worksheet 9: Lens Problems (quantitative)	Standard 1	M3.1
	Standard 4	4.3viii
	Standard 6	1 2.1
	Standard 7	1
20a) Optional Reading: Mirror Magic	Standard 1	S2.2
21) Particle Model Of Light Test	Standard 1	M1.1 M3.1
	Standard 4	4.3viii 4.3ix
	Standard 6	2.1 5.1