

Unit 10 – Ray Optics – Mirrors & Lenses Pacing Guide

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Day	Lab or Activity	Lecture -- Class Notes	Class Discussion	Homework	Assessment
1	Trace Ray Diagrams using a Straight Edge	Introduction to Mirrors Class Notes 10:1a-c Plane Class Notes 10:2a-g Concave Class Notes 10:3a-c Convex	Demonstrate Focal Lengths of Concave & Convex Mirrors	HW 10:1 #1-7 Ray Optics – Mirrors [Mirror Diagrams]	
2		Develop the Mirror Equations Class Notes 10:4a-j Mirror Problem Solving Class Notes 10:5a-j	Review HW 10:1 #1-7 Ray Optics – Mirrors [Mirror Diagrams]	HW 10:1 #8-11 Ray Optics – Mirrors [$1/d_o + 1/d_i = 1/f$]	
3	Begin Lab 10:1 Light Optics - Mirrors	Preview Lab 10:1 Light Optics - Mirrors	Review HW 10:1 #8-11 Ray Optics – Mirrors [$1/d_o + 1/d_i = 1/f$]	HW 10:1 #12-15 Ray Optics – Mirrors [$1/d_o + 1/d_i = 1/f$]	
4	Complete Lab 10:1 Light Optics - Mirrors	Review Lab 10:1 Light Optics - Mirrors	Review HW 10:1 #12-15 Ray Optics – Mirrors [$1/d_o + 1/d_i = 1/f$]	HW 10:1 #16-21 Ray Optics – Mirrors [$1/d_o + 1/d_i = 1/f$]	
5	Quiz 10:1 Oral Reports [3] One each for plane, concave and convex.		Review HW 10:1 #16-21 Ray Optics – Mirrors [$1/d_o + 1/d_i = 1/f$]	Complete the Written Lab Report on Lab 10:1 part A, B, or C	Quiz 10:1 Mirrors HW 10:1 #1-21 Ray Optics – Mirrors Due

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6	Complete Oral Reports [if necessary]	Introduction to Lenses Class Notes 10:6a-e Lens Maker's Formula	Return & Review Quiz 10:1 Mirrors Demonstrate Focal Length	HW 10:2 #1-2 Lens Maker's Formula	Lab Reports Due Lab 10:1 Light Optics - Mirrors
7	Trace Ray Diagrams using a Straight Edge	Lens Ray Diagrams Class Notes 10:6f-j Ray Diagrams - Lenses	Review HW 10:2 #1-2 Lens Maker's Formula	HW 10:2 #3-10 Ray Optics – Lenses [Ray Diagrams]	
8		Lens Problem Solving Class Notes 10:6k-n	Review HW 10:2 #3-10 Ray Optics – Lenses [Ray Diagrams]	HW 10:2 #11-15 Ray Optics – Lenses [Problem Solving]	
9		Lens Problem Solving Class Notes 10:7a-c Lens Combinations	Review HW 10:2 #11-15 Ray Optics – Lenses [Problem Solving]	HW 10:2 #16-23 Ray Optics – Lenses [Lens Combinations]	
10	Quiz 10:2	Vision Problems Class Notes 10:8a-f Myopia, hyperopia & Astigmatism	Review HW 10:2 #16-23 Ray Optics – Lenses [Lens Combinations]		Quiz 10:2 Refraction of Light -Lenses HW 10:2 #1-23 Ray Optics – Lenses Due
11	Small group work. Review for Test tomorrow.		Return & Review Quiz 10:2 Refraction of Light – Lenses Review HW 10:1 Mirrors & HW 10:2 Lenses	Review all of HW 10:1 Mirrors & HW 10:2 Lenses	
12	Test Unit 10				Test 10:A or B Mirrors & Lenses