

Syllabus for Exploring Creation With Physics Videos

You get the most benefit from the videos if you read the material, try the “On Your Own” problems, and perform the experiments that are covered in the video before you watch the video. To ensure that, here is a list of each video and what should be done before you watch it.

Video 1: Read pages 1-14, and complete Experiment 1.1

Video 2: Read page 15 from the end of Experiment 1.1 to the end of the module. Complete Experiment 1.2 in the process.

Video 3: Read 37-50, stopping at "Free Fall.”

Video 4: Read from "Free Fall" on page 50 to the end of the module. Complete Experiments 2.1 - 2.3 in the process.

Video 5: Read pages 71-83, stopping at Example 3.3. Complete Experiment 3.1 in the process.

Video 6: Read from Example 3.3 page 83 to the end of the module. Complete Experiment 3.2 in the process.

Video 7: Read pages 105-119, stopping at Example 4.4.

Video 8: Read from the beginning of Example 4.4 on page 119 to the end of the module, completing Experiments 4.1 and 4.2 in the process.

Video 9: Read pages 141-154, completing Experiment 5.1 along the way.

Video 10: Read from the beginning of page 155 to the end of the module, completing Experiment 5.2 along the way.

Video 11: Read pages 177-191, completing Experiments 6.1 and 6.2 in the process.

Video 12: Read from the top of page 192 to the end of the module, completing Experiment 6.3 in the process.

Video 13: Read pages 217-230, stopping at "Gravity." Complete Experiment 7.1 in the process.

Video 14: Read from "Gravity" on page 230 to the end of Module #7.

Video 15: Read pages 251-264.

Video 16: Read from the beginning of page 265 to the end of the module, completing Experiments 8.1 and 8.2 along the way.

Video 17: Read pages 287-298. Complete both Experiment 9.1 and 9.2 in the process.

Video 18: Read from the end of Experiment 9.2 on page 298 to the end of the module.

Video 19: Read pages 317-328, stopping at "The Mathematics of the Mass/Spring System." Complete Experiments 10.1 and 10.2 in the process.

Video 20: Read from "The Mathematics of the Mass/Spring System" on page 328 to the end of the module, completing the addition to the analysis of Experiment 10.2 in the process.

Video 21: Read pages 351-364, stopping at "Sound Waves Beyond the Ear's Ability to Hear." Complete Experiments 11.1 or 11.2 in the process.

Video 22: Read from "Sound Waves Beyond the Ear's Ability to Hear" on page 364 to the end of the module.

Video 23: Read pages 385-398, stopping at "Ray Tracing in Convex Spherical Mirrors." Complete Experiments 12.1 and 12.2 in the process.

Video 24: Read from "Ray Tracing in Convex Spherical Mirrors" on page 398 to the end of the module, completing Experiment 12.3 in the process.

Video 25: Read pages 423-436, stopping at the the end of the first problem in Example 13.2. Complete Experiments 13.1 and 13.2 in the process.

Video 26: Read from the end of the first problem in Example 13.2 (page 436) to the end of the module.

Video 27: Read pages 457-468, stopping at the end of Example 14.4.

Video 28: Read from the end of Example 14.4 on page 468 to the end of the module, completing Experiment 14.1 in the process.

Video 29: Read pages 487-501, stopping at the beginning of Experiment 15.3. Complete Experiments 15.1 and 15.2 in the process.

Video 30: Read from the beginning of Experiment 15.3 on page 501 to the end of the module, completing Experiment 15.3 in the process.

Video 31: Read pages 523-534, stopping at "The Magnetic Field of a Current-Carrying Wire." Complete Experiments 16.1 and 16.2 in the process.

Video 32: Read from "The Magnetic Field of a Current-Carrying Wire" on page 534 to the end of the module.