



Physics Coordination



Suggested Experiment Orders for

- ***BJU Press®***, ***PHYSICS for Christian Schools, 2nd & 3rd Edition***
- ***A Beka®***, ***PHYSICS: The Foundational Science (2011)***
- ***Apologia®***, ***Exploring Creation with Physics, 2nd Edition***

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**Logos Science, Inc. Physics Suggested Experiment Order for:
BJU Press®, PHYSICS for Christian Schools, 2nd & 3rd Edition**

| BJU Chapter | 2nd Edition Page | 3rd Edition Page | Suggested Physics Lab |
|-------------|----------------------------|----------------------------|---|
| 1 | p. 14 | p. 17 | 1. Scientific Analysis |
| 3 | p. 64 | p. 64 | 2. A Recording Timer and the Acceleration of Gravity |
| 4 | p. 86 | p. 86 | 3. The Sum of Vectors |
| 5 | p. 104 | p. 104 | 4. Projectile Motion |
| 6 | p. 127 | p. 128 | 5. Newton's Second Law |
| 7 | p. 147 | p. 146 | 6. Centripetal Force |
| 8 | p. 170 p. 180 | p. 172 p. 182 | 7. Accelerations on an Inclined Plane 8. Coefficient of Friction |
| 9 | p. 198 p. 206 | p. 202 p. 210 | 9. Work and Power 11. Hook's Law, Elastic Potential Energy |
| 10 | p. 217 | p. 221 | 10. Potential and Kinetic Energy |
| 11 | p. 237 p. 243 p. 246 | p. 244 p. 251 p. 255 | 12. Conservation of Momentum, Explosions 13. Conservation of Momentum, Collisions 14. Conservation of Energy and Momentum |
| 12 | p. 265 p. 277 | p. 273 p. 284 | 15. A Pendulum 16. Speed of Sound in Air |
| 15 | p. 332 p. 338 | p. 344 p. 350 | 17. Specific Heat of Metals 18. Latent Heat of Fusion |
| 17 | p. 380 | p. 394 | 19. Hydrostatics: Pascal's Principle |
| 18 | p. 406 | p. 424 | 20. Static Electricity |
| 19 | p. 424 | p. 442 | 21. Capacitors |
| 20 | p. 433 p. 440 p. 448 | p. 451 p. 458 p. 467 | 22. Resistors 23. Ohm's Law 24. Diodes and Transistors |
| 21 | p. 456 | p. 476 | 24. Magnetic Fields |
| 22 | p. 482 | p. 504 | 25. Making an Electric Motor |
| 23 | p. 519 | p. 542 | 26. Reflections from a Curved Mirror |
| 24 | p. 534 p. 540 | p. 558 p. 565 | 28. Refraction 29. Lenses |
| 25 | p. 555 | p. 585 | 30. Wavelength of a Laser Light |
| 26 | p. 576 | p. 605 | 31. Wavelengths of the Visible Spectrum |
| 28 | p. 625 | p. 657 | 32. Laser Measurements |
| 29 | p. 645 | p. 679 | 33. Nuclear Diameter |

**Logos Science, Inc. Physics Suggested Experiment Order for:
A Beka®, PHYSICS: The Foundational Science 2nd Edition (2011)**

| A Beka Chapter | Page | Suggested Physics Lab |
|----------------|--------------------------------------|---|
| 1 | p. 13 | 1. Scientific Analysis |
| 2 | p. 29 | 33. Nuclear Diameter |
| 3 | p. 39 | 19. Hydrostatics: Pascal's Principle |
| 5 | p. 70 | 10. Hook's Law, Elastic Potential Energy |
| 6 | p. 90 | 2. A Recording Timer and the Acceleration of Gravity |
| 7 | p. 95 p. 106 | 3. The Sum of Vectors 4. Projectile Motion |
| 8 | p. 111 p. 117 | 5. Newton's Second Law 8. Coefficient of Friction |
| 9 | p. 136 | 7. Accelerations on an Inclined Plane |
| 10 | p. 146 p. 154 | 6. Centripetal Force 15. A Pendulum |
| 11 | p. 162 | 9. Work and Power |
| 12 | p. 172 p. 179 p. 180 p. 182 | 11. Potential and Kinetic Energy 12. Conservation of Momentum, Explosions 14. Conservation of Energy and Momentum 13. Conservation of Momentum, Collisions |
| 14 | p. 214 p. 217 | 17. Specific Heat of Metals 18. Latent Heat of Fusion |
| 17 | p. 253 | 16. Speed of Sound in Air |
| 18 | p. 270 | 31. Wavelengths of the Visible Spectrum |
| 19 | p. 288 | 27. Reflections from a Curved Mirror |
| 20 | p. 295 p. 300 | 28. Refraction 29. Lenses |
| 21 | p. 317 p. 318 | 30. Wavelength of a Laser Light 32. Laser Measurements |
| 22 | p. 326 | 20. Static Electricity |
| 23 | p. 343 | 25. Magnetic Fields |
| 24 | p. 370 | 26. Making an Electric Motor |
| 25 | p. 379 p. 384 | 22. Resistors 23. Ohm's Law |
| 26 | p. 405 End of chapter | 21. Capacitors 24. Diodes and Transistors (This important topic is related to this chapter but not directly covered.) |

**Logos Science, Inc. Physics Suggested Experiment Order for:
Apologia®, Exploring Creation with Physics, 2nd Edition**

| Apologia Module | Page | Suggested Physics Lab |
|-----------------|--|---|
| Intro. | p. 1 p. 4 | 33. Nuclear Diameter 1. Scientific Analysis |
| 2 | p. 53 | 2. A Recording Timer and the Acceleration of Gravity |
| 3 | p. 90 | 3. The Sum of Vectors |
| 4 | p. 109 | 4. Projectile Motion |
| 5 | p. 148 p. 164 | 5. Newton's Second Law 8. Coefficient of Friction |
| 6 | p. 197 | 7. Accelerations on an Inclined Plane |
| 7 | p. 220 | 6. Centripetal Force |
| 8 | p. 257 p. 268 p. 276 p. 277 p. 283 | 11. Potential and Kinetic Energy 18. Latent Heat of Fusion 17. Specific Heat of Metals 9. Work and Power 19. Hydrostatics: Pascal's Principle |
| 9 | p. 295 p. 298 p. 304 | 12. Conservation of Momentum, Explosions 13. Conservation of Momentum, Collisions 14. Conservation of Energy and Momentum |
| 10 | p. 322 p. 342 | 10. Hook's Law, Elastic Potential Energy 15. A Pendulum |
| 11 | p. 357 p. 369 p. 372 p. 382 | 16. Speed of Sound in Air 30. Wavelength of a Laser Light 31. Wavelengths of the Visible Spectrum 32. Laser Measurements |
| 12 | p. 398 p. 403 p. 410 | 27. Reflections from a Curved Mirror 28. Refraction 29. Lenses |
| 13 | p. 430 | 20. Static Electricity |
| 14 | p. 473 | 21. Capacitors |
| 15 | p. 505 p. 513 p. 519 | 22. Resistors 23. Ohm's Law 24. Diodes and Transistors |
| 16 | p. 527 p. 541 | 25. Magnetic Fields 26. Making an Electric Motor |