

**Nelson Physics 12 (ISBN 0-17-625988-0)
Errata List**

Last Updated: March 4, 2003

This list includes corrections, additions, or changes (**in bold**) to the Nelson Physics 12 U-Prep student text, for the next printing.

Page Number	Unit 1 Corrections
51	Section 11.4 Questions, #11, second formula given is missing some terms; see the Solutions Manual for the complete formula
56	Practice Question #4 direction in margin answer should be 38°
60	Typo in Investigation 1.4.1, Step 6
136	Practice Question #13(e) margin answer should be 5.4 X 10⁻¹ N
143	Practice Question #12 margin answer should be 6.8 x 10⁻¹⁰ N
144	Fig. 5(a)(b), r subscript AC should be r subscript BC in both diagrams
157	Chapter 3 Self Quiz question #13, choices (c) and (d) altered ; answer at back O.K.; SM needs to change
171	Unit 1 Review, Question #46, coefficient 8.2 should be 7.2
171	Typo in Question #50
197	Practice Question #5, speed of the water should be 93 m/s , not 33 m/s; answer in margin and SM correct
219	Section 4.5 Questions #10; the fourth sentence in the question is reduced to “The jumper falls from rest.”
237	Practice Question #10(b) margin answer should be about 4.0 X 10¹ N·s
781	Section 1.4 Questions #4(b), [fwd] direction should be added after “17 m”
781	Chapter 1 Self Quiz #2 answer should be True
781	Chapter 1 Self Quiz #4 answer should be False
782	Chapt. 3 Self Quiz #7, answer should be False
782	Chapt. 3 Self Quiz #18, answer should be (d)
782	Chapter 3 Review #5, second answer, exponent should be -5 not -4
782	Chapter 3 Review#9(a), coefficient in answer should be 5.5 , not 5.44
782	Chapter 3 Review, answers for #10 and 11, should be labeled #11 and 12 to correspond to actual question numbers in the text
782	Unit 1 Self Quiz #21, answer should be (a)
782	Unit 1 Review #46(a), coefficient in answer should be 2.6 , not 3.0
782	Unit 1 Review #46(b), coefficient in answer should be 1.3 , not 4.8
782	Unit 1 Review #50, answer should be 1.6 , not 1.1

Page Number	Unit 2 Corrections
783	Chapter 4 Self Quiz #5, answer should be False
783	Chapter 5 Review #16(b) answers should be transposed to correspond more clearly with the question in the text; proper order should be 4.0 m/s and 3.0 m/s
783	Section 6.1 Question # 2(a) answer should be 3.99 X 10² , not . . . X 10 ³
783	Section 6.2 Question #6 answer should be just 4.0 h
783	Chapter 6 Review #10 answers should be (a) 1.17 X 10⁴ km, and (b) 1.01 X 10⁸ J

Page Number	Unit 3 Corrections
331	Practice question #7, margin answer coefficient should be 3.7
336	Section 7.2 Questions, #8, charge should be 1.0 X 10⁻⁶
354	Typo in Practice Question #4, see mark-up
357	Fig. 15, the curve is not drawn properly and should start and finish on the -70 dashed line, with a peak at +30 (see student text mark-up)
395	Learning Tip, absolute value given for the elementary charge should be 1.6 X 10⁻¹⁹ C , not 1.16 . . .
412	F ₂ /I equation half-way down the page; the I₂ needs to become I₂ in the numerator of the right side of the equation
784	Section 7.2 Questions #8 answers should be 1.9 X 10⁻² N, 8.4 X 10⁻³ N
784	Section 7.4 Questions #8(a) coefficient in answer should be -7.2
785	Chapter 8 Self Quiz #13, answer should be (d)

Page Number	Unit 4 Corrections
447	Fig. 7, dashed line and perpendicular added from point x
473	Practice Question #8, questions (a) and (b) should be transposed to match the margin answers and the Solutions Manual (leave latter two as is)
475	Section 9.5 Question #7(a), the value for the distance between the two adjacent dark interference fringes should be 0.33 mm , not 0.30 mm, to correspond with the SM and answer at the back of the student text
521	Fig. 4, some labels incorrectly placed making the diagram inaccurate, corrections indicated on mark-up
547	Chapter 10 Review Question #26, references to biomimicry deleted
785	Section 9.3 Questions #11(a)(b), directions in answers should be rewritten to conform to style; directions in both (a) and (b) should read 49°E of N, 49°W of N
785	Chapter 9 Review #17 answer should be 1200 nm , not 12
785	Chapter 9 Review #18 answer should be 632 nm , not 631
785	Chapter 9 Review #19 answer should be 613 nm , not 621
785	Chapter 10 Review #11 answer should be 1.70 X 10³ not . . . X10 ⁵
785	Chapter 10 Review #16, answers should be 108 nm, 325 nm
786	Unit 4 Review #12, answer missing the wavelength, which is 5.8 X 10⁷ m
786	Unit 4 Review #51(b), second answer should be 7.6 x 10⁻³ m

Page Number	Unit 5 Corrections
756	Typo in Appendix A
786	Chapter 11 Review, answers for #20 and 21, should be labeled #22 and 23 to correspond to actual question numbers in the text
786	Chapter 12 Review, answer for 29(a) should be 2.0 eV
787	Section 13.1 Question 7(a) answer, right side of the equation: change C [14 top, 7 bottom] to N [14 top, 7 bottom]
787	Section 13.4 Questions # 8 (c) answer should be electromagnetic, strong, weak, gravity
787	Section 13.4 Questions # 8 (d) answer should be strong, weak, gravity
787	Chapter 13 Self Quiz #16 answer should be (a)
787	Chapter 13 Review #2d, answer, y value should be 116
787	Chapter 13 Review #31(b) answer should be 2017.5 MeV/c²
787	Chapter 13 Review #31 (c) answers should be 140.9 MeV, 70.45 MeV
787	Unit 5 Review #21(b) answer, units should be eV not just V
787	Unit 5 Review #37(a) answer for x should be 7
787	Unit 5 Review #37(b) answer for x should be 86
787	Unit 5 Review #37(d) answer for Z should be Bi