

# AP Physics 1 Course and Exam Description: Errata for the 2017 print edition

Please note the following correction to the print edition of the *AP Physics 1 Course and Exam Description, Effective 2017*:

- On page 10, in the second bullet “Enduring Understandings,” in sentence beginning “These understandings” the phrase “concepts in each course” should be “concepts in each content area.”
- In EK3.A.1.f and EK4.A.1.a on page 17, EK4.A.1 on page 23, and EK3.A.1.f on page 27, the equations should be:

$$v_x = v_{x0} + a_x t$$

$$x = x_0 + v_{x0} t + \frac{1}{2} a_x t^2$$

$$v_x^2 = v_{x0}^2 + 2a_x(x - x_0)$$

- In EK3.A.1 on page 27, paragraph g now reads “For rotational motion there are analogous quantities such as angular position, angular velocity, and angular acceleration.” Paragraph h is deleted, former paragraph i is now h, and a new paragraph i reads: “For uniform circular motion of radius  $r$ ,  $v$  is proportional to  $\omega$  (for a given  $r$ ), and proportional to  $r$  (for a given  $\omega$ ). Given a radius  $r$  and a period of rotation  $T$ , students derive and apply  $v = (2\pi r)/T$ .s.”

- The first relevant equation in EK3.C.1 on page 30 and the last relevant equation in EK3.C.2 on page 54 should be:

$$|\vec{F}_g| = G \frac{m_1 m_2}{r^2}$$

- On page 31, EU4.C, L04.C.1.1, and EK 4.C.1 should now follow EU 4.A. The text for this insertion can be found on page 33.
- In EK1.B.1.b on page 55, the equation should be:

$$I = \frac{\Delta q}{\Delta t}$$

These corrections have been made in the online version.