

## *Exploring Creation High School Astronomy – Errata File*

This file contains the corrections for all printings of the High School Astronomy **Textbook** (Updated 2026).

### Corrections:

#### 1<sup>st</sup> and 2<sup>nd</sup> Printings:

Page 427 – Answer to Module 3 On Your Own question 3.10 should be as follows:

$$\text{Miles} = 100,000 \cancel{\text{LY}} \times \frac{5,878,612,843,000 \text{ mi}}{1 \cancel{\text{LY}}} = 5.8786 \times 10^{17} \text{ mi}$$

$$\text{AU} = 5.8786 \times 10^{17} \cancel{\text{mi}} \times \frac{1 \text{ AU}}{92,955,808 \text{ mi}} = 6,324,080,363 \text{ AU}$$

$$\text{Parsecs} = 5.8786 \times 10^{17} \cancel{\text{mi}} \times \frac{1 \text{ parsec}}{19,227,348,300,000 \cancel{\text{mi}}} = 30,574 \text{ parsecs}$$

#### 1<sup>st</sup> – 4<sup>th</sup> Printings:

Page 138 – 3 edits in Example 6.2 step 2

1. Change the value of G to 3.4389 two times:
  - a. In the first equation  $v_p = (3.4389 \times 10^{-8})$
  - b.  $G = 3.4389 \times 10^{-8}$
2. Change the final answer for  $v_p$  to: **64,200 ft/sec**

Page 147 – 4 edits in the last section

1. Change the value of G to 3.4389 two times:
  - a.  $G = 3.4389 \times 10^{-8}$
  - b. In the first equation  $a =$  with the cubed root, in the numerator, second number  **$3.4389 \times 10^{-8}$**
2. In the final answer  $a =$  change 1.8999 to **1.85109** and change the final answer for  $a$  to: **35,058,522.7 mi**

Page 149 – Change the following values in Step 2:

1. value of G in first line –  $G = 3.4389 \times 10^{-8}$
2. change  $a$  to  **$1.85109 \times 10^{11}$  ft**
3. value of G in first instance of  $v_p = (3.4389 \times 10^{-8} \dots)$  in place of 3.43967373
4. In the first  $v_p$  equation, in the last denominator, change 1.8999 to **1.85109**
5. Change the final answer to  $v_p = 191,777 \text{ ft/sec} = 36.32 \text{ mi/sec}$

Page 149 – Change the following values in Step 3:

1.  $v_p = \mathbf{191,777}$  ft/sec
2.  $a = \mathbf{1.85109} \times 10^{11}$  ft
3. In  $v =$ , change 193,488 to **191,777** and in the denominator change 1.8999 to **1.85109**

Page 149 – Change the following in the final paragraph:

1. Second line, change 193,488 to **191,777** and 36.65 to **36.32**
2. Third line, change 127,496 to **129,700** and 24.15 to **24.56**

Page 161 – Change the following in step 2:

1.  $G = \mathbf{3.4389} \times 10^{-8}$
2.  $r_p = \mathbf{3.52637} \times 10^{11}$  ft
3.  $a = \mathbf{3.55016} \times 10^{11}$  ft
4. In first  $v_p =$  change 3.43967373 to **3.4389**; in the first denominator change 3.5264 to **3.52637** and in the second denominator change 3.5502 to **3.55016**
5. In final  $v_p =$  change 115,671 to **115,658** and 21.91 to **21.90**

Page 161 – Change the following in step 3:

1.  $r_p = \mathbf{3.52637} \times 10^{11}$  ft
2.  $v_p = \mathbf{115,658}$  ft/sec
3.  $a = \mathbf{3.55016} \times 10^{11}$  ft
4.  $v = (\mathbf{3.52637} \times 10^{11})(\mathbf{115,658})$  and in the denominator, change the first number to **3.55016**

Page 161 – In the final paragraph, make the following changes:

1. Venus' speed around the Sun varies from a high of **115,658** ft/sec (**21.90** mi/sec) to a low of **114,888** ft/sec (**21.76** mi/sec).

Page 433 – On Your Own 3.50 – At the end of the second line of the solution, the last lb should be crossed out: Y ~~lb~~

Page 446 –

1. For On Your Own problems #6.4 and #6.2 – In the  $v_p$  change the first value under the radical sign to  **$3.4389 \times 10^{-8}$**
2. For On Your Own #6.6
  - a. In the first equation, in the denominator, change the first value to  **$3.4389 \times 10^{-8}$**
  - b. In the second equation,  $a =$ , in the numerator under the radical sign, change the first value to  **$(31,557,600^2)$** ; change the second value to  **$(3.4389 \times 10^{-8})$** ; and change the final answer of  $a$  to  **$4.9077 \times 10^{11}$  ft**

Page 448 – On Your Own #6.16 in the last section:

1. Where:  $G = 3.4389 \times 10^{-8}$
2. In the second to last equation, change the denominator to  $(3.4389 \times 10^{-8}) M_m$
3. In the last equation, change the value of  $G$  in the denominator to  $(3.4389 \times 10^{-8})$  and change the final answer for  $M_m$  to  $2.2623 \times 10^{22}$

Page 449 – On Your Own #6.28:

1. Where:  $G = 3.4389 \times 10^{-8}$
2. In the second to last equation denominator, change the value of  $G$  to  $(3.4389 \times 10^{-8})$
3. In the last equation, change the first value to  $1.94158 \times 10^7$  and change the final answer to **224.7** Earth days.

Page 466 – On Your Own #9.17:

1. Where:  $G = 3.4389 \times 10^{-8}$
2. Numerator for  $F = 3.4389 \times 10^{-8}(1.3007 \times 10^{26})(400)$  [remove duplicate of 2<sup>nd</sup> term].
3. Final answer for  $F = 25,671$  lb

5<sup>th</sup> Printing:

Page 466 – On Your Own #9.17: Final answer for  $F = 25,671$  lb

6<sup>th</sup> Printing:

No known errata