

Exploring Creation with Biology, 3rd Edition – Errata File

This file contains the corrections for the 1st Printing: March 2020, of the Textbook. The printing for the Textbook may not be the same as for the Solutions and Tests Manual and Student Notebook. Corrections for the Solutions and Tests Manual and Student Notebook are in separate files.

Page v – The first scripture reference should be Matthew 10:29-31.

Page xvii – The word Archaea is misspelled twice under Module 9 Archaea and Bacteria and the next line

Also misspelled on the following pages: 349, 353, 354, 355, 358, 362, 367, 386, 667, 694

Page 10 – On Your Own 1.1 cannot be answered until after reading the section following the OYOs, The Limitations of Science.

Page 10 – On Your Own 1.2 – change the last word “fact” to “law.”

Page 24 – In the section A Common Measurement System, the 5th line – In the sentence beginning, The metric system is...change “metric system” to “metric-based system of units.”

Page 28 – In the list of materials, remove the last item: Methylene blue stain.

Page 40 – In the 2nd paragraph change the 3rd sentence to: In a neutral atom, they are, but some atoms gain or lose electrons, which makes them ions (charged particles).

Page 44 – In Figure 2.7, remove one of the silver “bonds” in the O₃ molecule; there should only be 2.

Page 46 – Change the definition of Ion to – Positively or negatively charged atom (or group of atoms) resulting from the transfer of electrons.

Page 51 – In Figure 2.13, the solid lines should be dotted lines.

Page 63 – In the paragraph right below Figure 2.22, add the word “Most” at the beginning of the first sentence, so it reads: Most organic bases...

Page 90 – Figure 3.3, the eagle at the top should be a hawk.

Page 101 – In the 2nd to last paragraph, replace the partial sentence after 1977 with:

“the headlines discussed the possibility of global cooling because scientists believed...”

Page 105 – Figure 3.14 – Remove the small blue arrow under the word Respiration, that is pointing to the tree.

Page 111 – Figure 3.19 – Remove 3 statements/labels – “Longer distance and” at the top and bottom, and “Shorter distance and” in the middle. The top and bottom lines should just read: Low angle of sun’s rays. The middle line should just read: Most direct sun’s rays.

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Page 134 – question #5: part a. and b.

For clarity, add the word 'adjacent' so the questions read:

5a. ...which two adjacent trophic levels have the greatest disparity...

5b. ...which two adjacent trophic levels is the smallest...

Page 143 – In ‘think about this’ section: About 2,000 cells...change to About 2,000 eukaryotic cells...

Page 160 – In ‘creation connection’ section, 2nd sentence should read: “Even the simplest eukaryotic single-celled organism...”

Page 161 – In the first sentence beneath the definition for Concentration, change to “...are very small nonpolar molecules...” (add the word nonpolar).

Page 170 – Figure 4.20: change the red ATP+P to ADP+P.

Page 190 – In ‘think about this’ section, paragraph 2, 1st sentence, “Photosynthesis is a naturally occurring...” replace the words “the only” with “a.”

Page 225 – In the ‘think about this’ section, the 8th line ends in epigenetics. Add the following after epigenetics: (the study of how modifications in gene expression cause changes in organisms).

Page 351 – Change the first sentence to read: In addition to genus and species, organisms are categorized into a total of seven levels called **taxons**.

Page 622 – in the first paragraph, remove the sentences beginning with “All you have to do is remember...through the end of the paragraph ending “That tells you it is venomous.”

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Page 13 – Week 1, Day 1 directs students to complete OYO 1.1-1.4. Question 1.1 cannot be answered until day 2 after reading pages 10-15.

Page 13 – Week 8, Day 3 should be: Read pp. 160-166 (not 150-166).

Page 14 – Week 12, Day 2 should be: Read pp. 220-225 (not 210-225).

Page 14 – Week 19, Day 1 should be: Read pp. 362-368 (not 356-361).

Page 14 – Week 21, Day 5: Add Experiment 10.5 underneath Experiment 10.4.

Page 25 – OYO 1.2 – change the last word “fact” to “law.”

Page 76 – For clarity, add the word “adjacent” to questions 5a. and 5b. so they read: ...which two adjacent trophic levels...

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Page 11 – #4. Add the following sentences for the 3rd part of the question:

Isotopes are atoms that have the same atomic number but different atomic masses. Isotopes of the same chemical element differ in the number of neutrons they have.

Page 12 – Answer to #16 – 3 corrections as follows:

On the first image at the right: add an O to the H so that the C bonds with an OH instead of an H.

The underlined answer should be molecule c (not b)

At the very right of the second image, again, add the O to the farthest H so that the C bonds to an OH.

Page 22 – 2 corrections as follows:

#11. Add the answer for the second part of the question:

Carbon dioxide enters the air by volcanoes, decomposition of organic material, combustion, and cellular respiration.

#17. Change “nitrifying” to “nitrogen-fixing” in the first line.

Page 28 – Add to the answer to #22 as follows:

The hawk will either be a tertiary, quaternary, or sometimes higher (such as quinary) consumer.

Page 41 – Remove question #25.

Page 46 – Answer to Study Guide #15, row 7:

Column 1: Final electron acceptor of ETC

Photosynthesis column 2: NADPH

Cellular Respiration column 3: Oxygen

Page 60 – Answer to Test question 23d should be:

Met-Cys-Arg: there are 3 amino acids in the polypeptide. The last codon is a stop codon.

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Page 63 – two corrections as follows:

#6 Punnett Square – the **2nd column** should have an A on the outside. Row 1 should be AA. Row 2 should be Aa.

#7 Punnett Square – the **1st row** should have an r on the outside. Column 1 should be Rr. Column 2 should be rr.

Page 71 – Answer to test question #12 should be (c) not (b).

Page 72 – #22 in the first Punnett Square, the bottom left square should contain Tt.

Page 88 – Add the following to the bottom of the page:

m. Vaccine – A weakened or inactive version of a pathogen that stimulates the body's production of antibodies that aid in destroying the pathogen