Exploring Creation with Physical Science 3rd Edition – Errata File

This file contains the corrections for the 1st (March 2020) and 2nd (July 2020) Printings, of the **Student Notebook.** The printing for the Student Notebook, may not be the same as for the Textbook or Solutions and Tests Manual. Corrections for the Textbook or Solutions and Tests Manual are in separate files. (Updated 6/21/2021)

Clarification:

The terms Full Lab Report, Full Lab Write-Up, and Complete Lab Report were used interchangeably to mean Formal Lab Report, as referenced on the Formal Lab Report, page 472, for example. This refers to the one lab report written at the end of each module for only 1 of the experiments. The grading rubrics on pages 7-8 and 630-631 use the word Full in place of Formal.

Corrections:

Page 8 – In the row for Conclusions and Connections to Text:

Change the column for 4-5 points to read:

Conclusions are complete, logical, and very neat. Connections to text are accurately and thoroughly made. Data…

Change the column for 2-3 points to read:

Conclusions are complete, logical, and legible. Some connections to the text are made but may be lacking in detail. Data…

Page 10 – In the example above the grade chart, the numbers given do not match the math below the paragraph. In the 3rd paragraph, it states the student got 18 correct answers out of 23.

In the calculations for Module 1 test grade example, change to the following:

18 correct answer points + 2.5 half-credit points = 20.5 points
20.5 points ÷ 23 possible points x 100% = 89.1% = 89%

Module 1 test weighted score: 89 x 0.60 = 53.4 = 53

Page 15 – Week 4, Day 4 should read:

Text pp. 61-65
NB pp. 56-58

Page 18 – Week 24, Day 3 – the NB pp. should be 336-338.

Page 78 – At the bottom of the page by the picture, change Neil to Niels.

Page 130 – In the long purple box below the vocabulary section, change ‘decomposition’ to ‘combustion’ so the question reads:

“What 2 examples of combustion reactions did the text talk about?”

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Page 142 – Study Guide question #2b. – change the answer option to 'calcium (I) chlorine (II)'

Page 175 – In #1, add the following answer option so there are 7 answers:

– The ratio of the total distance traveled to the total time of the trip.

– SG #5 – change "it is" to "is it" so that it reads as a question.

Page 177 – Study Guide question #10 – replace with the following:

– A boat is traveling downstream on a quiet river with a speed of 8.0 m/s, and another boat is traveling with a speed of 10.0 m/s upstream. What is their relative speed?

Page 214 – Study Guide question #1 – please note that one answer option is "The tendency of an object to resist changes in its velocity" and the next answer option is "Friction that opposes the initiation of motion." There should be a space between the two so that is it easily delineated. All of the 6 options are listed to match page 267 of the textbook.

Page 253 – #16 – change '20.0 km/s' to '20.0 m/s' and remove the hint at the end of the question.

– #17 – for clarification, change the beginning of the first sentence to: "Suppose 200.0 kg of…" and the beginning of the 2nd sentence to "How much gravitational potential energy…"

Page 298 – The diagram shows the same "interference" 2 times. The 2nd one should be different, showing Destructive Interference. See Figure 10.6 on page 354 of the textbook for the 2nd diagram.

Page 432 – At the end of Study Guide question #9, it should read: "…such as the one shown in Figure 14.7."

Page 467 – At the end of Step 9 – change the last 2 sentences to read: "This gives you the number of swings per minute and is known as the frequency. Now find the period by dividing the frequency into 1 (period=1/frequency). Record the period in your data table."

Page 468 – In the Results section, change the first sentence of Step 1 to read: Find the average period for each mass…

Pages 477-478 – *See the revised printable pages at the end of this file. (2nd printing only)

Page 553: 2 edits

– Procedure Part A #6 – change to:

"Calculate the force (in this case it is the weight, use W = mg, where g = 9.8 m/s^2), work, and power (in watts and horsepower) that you produced as you lifted the 1 lb mass and record it in the data table."

Page 553 continued

– Procedure Part B #4 – change to:

"Calculate the force (your weight, use W = mg, where g = 9.8 m/s^2), work, and power (in watts and horsepower) that you produced as you lifted your body up the stairs and record it in the data table."

Pages 554 – 555 - *See the revised printable pages at the end of this file. – On page 554 a section for Step 6: Calculate the force/weight was added. On page 555 a section for Step 4: Calculate your weight/force was added.

Page 612 – In Step 12 – change the first sentence to: Repeat step 11.

Page 623 – Experiment 14.1 – In the Materials list, change 100 mg vitamin C pill to 1000 mg vitamin C pill.

Page 631 – Same edits as page 8 above – In the row for Conclusions and Connections to Text:

Change the column for 4-5 points to read:

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Change the column for 2-3 points to read:

Conclusions are complete, logical, and legible. Some connections to the text are made but may be lacking in detail. Data…

Data Table 1, continued		
	Tepid Tap Water	**Very Hot Tap Water**
Observations		
Time for complete diffusion		
Draw what you observe in each beaker after 3 minutes. (Use colored pencils if you can.)	**Ice Water**	**Very Cold Tap Water**
		
Time for complete diffusion		
Draw what you observe in each beaker after 3 minutes. (Use colored pencils if you can.)	**Tepid Tap Water**	**Very Hot Tap Water**
		

CONCLUSIONS:

Explain your results by using the kinetic theory of matter and making connections to the text.

OBSERVATIONS:

Data Table 1	
Step 3: Measurement of string (cm)	
Step 4: Actual mass of weight (kg)	
Step 5: Time (s)	
Step 6: Calculate the force/weight (newtons)	
Step 6: Calculate the work you did (joules)	
Step 6: Calculate the power required (watts)	
Step 6: Calculate the power required (horsepower)	

Data Table 2	
Step 1: Your weight (kg)	
Step 2: Distance (total vertical height) of stairs (cm)	
Step 3: Time (s)	
Step 4: Calculate your weight/force (newtons)	
Step 4: Calculate the work you did (joules)	
Step 4: Calculate the power required (watts)	
Step 4: Calculate the power required (horsepower)	