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I hope you enjoy these plans and find them useful in your homeschool!

Sincerely,

Diana Cunningham

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Suggested Weekly Schedule for Weeks 1-6

Week 1: Lessons 1-4 (Chapter 1)
nature observation & journal (at least 1X each week)

Week 2: Lessons 5-7 (Chapter 2)
nature observation & journal (at least 1X each week)

Week 3: Lessons 8-11 (Chapter 3)
nature observation & journal (at least 1X each week)

Week 4: Lessons 12-15 (Chapter 4)
nature observations & journal (at least 1X each week)

Week 5: Lessons 16-18 (Chapter 5)
nature observations & journal (at least 1X each week)

Week 6: Lessons 19-22 (Chapter 6)
nature observations & journal (at least 1X each week)

Written exam covering chapters 1-6 occurring in Week 7



__Day 1

Prepare your science notebook.

1. Get a 3-ring notebook for science only.
2. Put four dividers in your notebook, labeling one tab as 'vocabulary,' one as 'chapter notes,' one as 'people,' and the last as 'elements etc.'
2. Put a ream of regular lined paper in the notebook
3. On the first page of paper behind the 'vocab' tab, write the definitions for: chemistry, chemist, element, compound, periodic table
4. From the internet or another source, locate and print out (or photocopy) a chart with the periodic table on it. Put this chart at the beginning of the notebook.

__Day 2

The World of Chemistry

-read pp. 4-7 (Chp 1)

-In your notebook, label a page: Chapter 1– Ancient Metals.

-Write a sentence or two about each of these topics on the page:

1. the importance of metals to ancient people
2. stones falling from the sky
3. how Egyptians made iron

__Day 3

The World of Chemistry

-read pp. 7-10 (Chp 1)

-In your notebook on the page headed with Chapter 1, write a sentence or two about each of these topics. If your page fills up, continue on another page.

1. how steel is made
2. why steel is preferred over other metals
3. some examples of iron reacting to oxygen
4. the use of tin on cans
5. define alloy (may need to look up in dictionary)
6. use of pewter
7. what happens when pure tin gets cold
8. a disaster which occurred because the tin got cold
9. Uses of tin today
10. how the word 'plumber' came to be



__Day 4

The World of Chemistry

- do p. 11 on separate page and place in notebook behind the Chapter 1 page(s).
- look over the sentences you wrote during Chp 1
- tomorrow your parent will give you an oral test using these questions

Organize your notebook:

1. Using your chapter sentences, rewrite them in their proper places in the notebook.
 - sentences about iron, steel, tin, alloys, and pewter should all be rewritten in the 'elements etc' section
 - definition of 'alloy' in vocab section
2. Put your chapter notes page back in its proper place when you are done doing this.

__Day 5

- Parent to give you oral test over Chapter 1, using your sentences and p. 11.
- Write your grade next to the label "Chapter 1– Ancient Metals" on your notes page.

The World of Chemistry

- read p. 12-13 (Chp 2)
- In your notebook, label a page: Chapter 2– The Money Metals.
- Write a sentence or two about each of these topics on the page:
 1. the characteristics of gold
 2. uses of gold
 3. why gold is sometimes mixed with copper
 4. what carats are
 5. characteristics and uses of silver
 6. the color of copper
 7. the only metals that have color

__Day 6

The World of Chemistry

- review your Chp 2 sentences from the last lesson
- read p. 14-16 (Chp 2)
- In your notebook write a sentence or two about each of these topics on the Chp. 2 page:
 1. five ways copper is/was used
 2. bronze
 3. brass
 4. the color copper turns when exposed to sulfur in the air
 5. the use of copper in electrical wires
 6. the three "working" metals
 7. the three "money" metals
 8. the liquid metal
 9. characteristics of mercury
 10. uses of mercury
 11. which metals were "matched" with which planets and why



__Day 7

The World of Chemistry

- do p. 17 on separate page and place in notebook behind the Chapter 2 page(s).
- look over the sentences you wrote during Chp 2 in preparation for next lesson's test

Organize your Notebook

1. 'elements etc': anything having to do with gold, copper, silver, bronze brass, metals, mercury
2. 'vocab': carats

__Day 8

- Parent to give you oral test over Chapter 2, using your sentences and p. 17.
- Write your grade next to the label "Chapter 2– The Money Metals" on your notes page.

The World of Chemistry

- read p. 18– 20 (Chp 3)
- In your notebook, label a page: Chapter 3– The Search for Gold.
- Write a sentence or two about each of these topics on the page:
 1. nickname for sulfur
 2. characteristics of sulfur
 3. uses of sulfur
 4. the relationship between sulfur and rubber
 5. what sulfuric acid is
 6. uses of sulfuric acid
 7. where sulfur comes from (sources of sulfur)
 8. three forms of carbon
 9. difference between carbon in graphite form and in diamond form
 10. use of graphite
 11. use of carbon

__Day 9

The World of Chemistry

- review your Chp 3 sentences from the last lesson
- read p. 20– 23 (Chp 3)
- In your notebook write a sentence or two about each of these topics on the Chp. 3 page:
 1. what was done to charcoal in order to try to change it into a diamond
 2. the uses of synthetic diamonds
 3. definition of alchemy/chemist
 4. the Greek's idea about four basic building blocks of nature
 5. philosopher's stone



__Day 10

The World of Chemistry

-review your Chp 3 sentences from the last lesson

-read p. 24– 26 (Chp 3)

-In your notebook write a sentence or two about each of these topics on the Chp. 3 page:

1. the scientist who set the study of chemistry back on course
2. contemporaries of Boyle (other scientists of that time)
3. the scientists Boyle studied in school
4. Boyle and experiments
5. Boyle's definition of an element
6. why gold cannot be made by a combination of other metals or minerals
7. Boyle's famous book
8. the element Boyle discovered and its characteristics
9. definition of 'element' as it is used in chemistry

__Day 11

The World of Chemistry

-do p. 27 on separate page and place in notebook behind the Chapter 3 page(s).

-look over the sentences you wrote during Chp 3 in preparation for the test during the next lesson

Organize your Notebook

1. 'elements etc': anything having to do with charcoal, diamond,
2. 'vocab' : alchemy, philosopher's stone, element
3. 'people': anything to do with Robert Boyle

__Day 12

--Parent to give you oral test over Chapter 3, using your sentences and p. 27.

-Write your grade on your notes page

The World of Chemistry

-read p. 28– first half of 30 (Chp 4)

-In your notebook, label a page: Chapter 4– Gases in the Air.

-Write a sentence or two about each of these topics on the page:

1. Henry Cavendish's motto
2. the gas Cavendish found
3. six things about hydrogen
4. what molecules are combined to make water
5. what hydrogen needs to be combined with in order to burn
6. (review– definition of element)



Day 13

The World of Chemistry

-review your Chp 4 sentences from the last lesson

-read p. 30– 32– 1st half (Chp 4)

-In your notebook write a sentence or two about each of these topics on the Chp. 4 page:

1. carbon dioxide and soda drinks
2. the important gas that Joseph Priestly discovered
3. why oxygen would disappear from the earth if there were no plants
4. relationship between oxygen and burning
5. what burns underwater
6. spontaneous combustion
7. how Daniel Rutherford discovered there were more gases in air than just oxygen
8. characteristics of nitrogen
9. why it is good that the air is made mostly of nitrogen rather than mostly oxygen
10. two of nitrogen's most important applications (uses)
11. how plants get nitrogen
12. (review– definition of element)

Day 14

The World of Chemistry

-review your Chp 4 sentences from the last lesson

-read p. 32-34 (Chp 4)

-In your notebook write a sentence or two about each of these topics on the Chp. 4 page:

1. symbol for the element oxygen
2. symbol for the element nitrogen
3. symbol for the element hydrogen
4. symbol for the element carbon
5. symbol for the element sulfur
6. symbol for the element chlorine
7. symbol for the element cobalt
8. symbol for the element gold
9. symbol for the element silver
10. symbol for the element copper
11. symbol for the element lead
12. symbol for the element tin
13. symbol for the element mercury
14. symbol for the compound water
15. symbol for the compound hydrogen
16. what the N, H, and 3 stand for in the formula NH_3
17. definition of element
18. definition of compound
19. what the periodic table is



Day 15

The World of Chemistry

- do p. 35 on separate page and place in notebook behind the Chapter 4 page(s).
- look over the sentences you wrote during Chp 4 for your test

Organize your notebook:

1. 'elements' everything about hydrogen, molecules, water, carbon dioxide, oxygen, the symbols of the elements listed on Day 14, and nitrogen
2. 'people': everything about Henry Cavendish, Joseph Priestly, Daniel Rutherford
3. 'vocab': compound, periodic table

Day 16

- Parent to give you oral test over Chapter 4, using your sentences and p. 35.
- Write your grade on your notes page

The World of Chemistry

- read p. 36– 40 –first half (Chp 5)
 - In your notebook, label a page: Chapter 5– Electricity to the Rescue
 - Write a sentence or two about each of these topics on the page:
1. static electricity
 2. Benjamin Franklin, lightning, and static electricity
 3. definition of electric current
 4. Galvani and the dead frog's legs
 5. Allesandro Volta and the electric battery
 6. definition of 'volt'
 7. galvanized iron
 8. Galvani and a figure of speech
 9. Humphry Davy, battery, oxygen and hydrogen
 10. the elements Davy discovered
 11. (definition of element, compound, periodic table)



Day 17

The World of Chemistry

-review your Chp 5 sentences from the last lesson

-read p. 40- (Chp 5)

-In your notebook write a sentence or two about each of these topics on the Chp. 5 page:

1. dangers in coal mines
2. Davy and the safety lamp
3. the members of the sodium family
4. what the sodium family of elements are also called
5. eight characteristics of the sodium family
6. six uses of sodium and its compounds
7. why water is not poured on a fire caused by a sodium family member
8. characteristic of lithium
9. what pilots used lithium for
10. what we use lithium for
11. an element and compound mentioned in this chapter

Day 18

The World of Chemistry

-do p. 43 on separate page and place in notebook behind the Chapter 5 page(s).

-look over the sentences you wrote during Chp 5 in preparation for your test

Organize your notebook:

1. 'vocab': static electricity, electric current, volt,
2. 'elements': everything about galvanized iron, sodium family, lithium
3. 'people': everything about Franklin, Galvani, Volta, Davy

Day 19

--Parent to give you oral test over Chapter 5, using your sentences and p. 43.

-Record your grade

The World of Chemistry

-read p. 44 –50 (Chp 6)

-In your notebook, label a page: Chapter 6– Search for Order

-Write a sentence or two about each of this topic on the page:

1. why chemists needed a way to organize all of the elements



__Day 20

The World of Chemistry

-skim over p. 44 –50 again (Chp 6)

-In your notebook, write a sentence or two about each of these topics on the page:

1. how Dmitri Mendeleev organized the elements (according to their atomic weight and what else?)
2. why there were gaps in Mendeleev's periodic table
3. what has happened to those gaps over the years

The World of Chemistry

do p. 51

__Day 21

The World of Chemistry

-look over the sentences you wrote during Chp 6 and at p. 51 in preparation for the test

-study the notes from chapters 1-6 for the written exam next week

Organize your notebook:

1. 'people': everything about Dmitri Mendeleev
2. 'elements': everything about the periodic table

__Day 22

--Parent to give you oral test over Chapter 6, using your sentences and p. 451.

-Record your grade

-Study the notes from chapters 1-6 for the written exam next week.