

Date: October 15, 2018

School Day: 039

**Learning Objectives** – “Students can...”

1. Analyze new concept vocabulary – Vocabulary Enhancement (BW)
2. Science Fair Materials List & Data Collection & Lab 2-1 CO<sup>2</sup> Lab: Setup & Data Collection – Day 1

**Assessment**

In-class completion of the notebook/bell work  
*Lab 2-1 CO<sup>2</sup> Lab: Setup & Data Collection – Day 1*

**Homework**

1. Completing Lab 2-1 Data Collection Table – 10/16
2. Complete BW vocabulary (5 terms) – 10/17
3. Science Fair Materials List & Data Collection – 10/22

**Reminders / DO NOT COPY**

**Science Fair Projects are due in class – 11/26**

**Model notebook entries** can be found below at the Teacher’s NB. Use this resource to keep your notebook accurate.

**Bell work**

Using the vocabulary list provided at your seat: *Complete the five starred\* terms*

For each term on the list you may do one of the following:

- Copy
- Summarize
- Provide an example

**Incomplete or incorrect vocabulary will be scored accordingly.**

**No pictures – Text only**

*\*\*Vocabulary assignments must be complete prior to notebook assessments – please plan/prepare accordingly.*

**Linked Documents and Class Resource**

[Teacher’s NB 10/15](#)

[Lab 2-1 CO<sup>2</sup> Lab / The Green House Effect](#)

[Vocabulary 4-1<sup>2</sup> ↓](#)

[SCIENCE FAIR LINK!](#)

**District Content Descriptor:**

Construct, use, and present oral and written arguments supported by empirical evidence and scientific reasoning to support or refute an explanation or a model for a phenomenon. (07-PS3-5)

Temperature is a measure of the average kinetic energy of particles of matter. The relationship between the temperature and the total energy of a system depends on the types, states, and amounts of matter present. (07-PS3-3)

Fayette County  
2018-19  
District Content Map

Week 10: October 15 - 19, 2018

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<b>Date:</b> October 16, 2018	<b>School Day:</b> 040		
<b>Learning Objectives – “Students can...”</b> 1. Analyze and respond to our weekly Science Article: Climate Science for Kids (BW) 2. Lab 2-1 CO <sup>2</sup> Lab: Data Collection – Day 2	<b>Assessment</b> In-class completion of the notebook/bell work <i>Lab 2-1 CO<sup>2</sup> Lab: Data Collection – Day 2</i>		
<b>Homework</b> 1. Completing Lab 2-1 Data Collection – 10/17 2. Complete BW vocabulary (5 terms) – 10/17 3. Science Fair Materials List & Data Collection – 10/22 <hr/> <b>Reminders / DO NOT COPY</b> <b>Science Fair Projects are due in class – 11/26</b>  <b>Model notebook entries</b> can be found below at the Teacher’s NB. Use this resource to keep your notebook accurate.	<b>Bell work</b> Using good-practice reading techniques, read this week’s science article. When you finish reading, complete the article questions below. <ol style="list-style-type: none"> <li>1. <b>Where is planet 581d – How far away?</b></li> <li>2. <b>Why are scientists excited about this planet?</b></li> <li>3. <b>Why are earth sized planets usually “to small” to support life?</b></li> <li>4. <b>Opinion: Would you travel to a new planet? Why?</b></li> </ol>		
<b>Linked Documents and Class Resource</b>  Vocabulary 4-1 <sup>2</sup> ↓	<a href="#"><u>Teacher’s NB 10/16</u></a>  <a href="#"><u>SCIENCE FAIR LINK!</u></a>	<a href="#"><u>Science Article: Another Earth</u></a>	<i>Lab 2-1 CO<sup>2</sup> Lab / The Green House Effect</i>
<b>District Content Descriptor:</b> Construct, use, and present oral and written arguments supported by empirical evidence and scientific reasoning to support or refute an explanation or a model for a phenomenon. (07-PS3-5) ----- Temperature is a measure of the average kinetic energy of particles of matter. The relationship between the temperature and the total energy of a system depends on the types, states, and amounts of matter present. (07-PS3-3)			<i>Fayette County  2018-19  District Content Map</i>

Date: October 17, 2018

School Day: 041

**Learning Objectives** – “Students can...”

1. Use critical thinking to solve a problem. (BW)
2. Lab 2-1 CO<sup>2</sup> Lab: Analyzing Data & Graphing – Day 3

**Assessment**

In-class completion of the notebook/bell work  
*Lab 2-1 CO<sup>2</sup> Lab: Analyzing Data & Graphing – Day 3*

**Homework**

1. Complete CO<sup>2</sup> Lab Graphing – 10/18
2. Quiz 8-1: Labs & Notebook Concepts – 10/19
3. Science Fair Materials List & Data Collection – 10/22

Reminders / DO NOT COPY

**Science Fair Projects are due in class – 11/26**

**Model notebook entries** can be found below at the Teacher’s NB. Use this resource to keep your notebook accurate.

**Bell work**

Complete today’s challenge question in the notebook. When you finish, **record your answer on a small piece of paper and place it in the solutions chest at the front of the room.**

**TRIVIA CHALLENGE: If planet e (2<sup>nd</sup> Earth) is 20 light years away, how far is it to planet e in miles? Hint: Light travels ~186,000 miles per second**

**Linked Documents and Class Resource**

[Teacher’s NB 10/17](#)

[Lab 2-1 CO<sup>2</sup> Lab / The Green House Effect](#)

[SCIENCE FAIR LINK!](#)

**District Content Descriptor:**

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Week 10: October 15 - 19, 2018

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**Learning Objectives** – “Students can...”

1. Analyze and respond to the YouTube - Q Review. (BW)
2. Lab 2-1 CO<sup>2</sup> Lab: Graphing & Conclusion – Day 4

**Assessment**

In-class completion of the notebook/bell work  
*Lab 2-1 CO<sup>2</sup> Lab: Graphing & Conclusion – Day 4*

**Homework**

1. Quiz 8-1: Labs & Notebook Concepts – 10/19
2. Complete CO<sup>2</sup> Lab Graphing & Conclusion – 10/22
3. Science Fair Materials List & Data Collection – 10/22

**Reminders / DO NOT COPY**

**Science Fair Projects are due in class – 11/26**

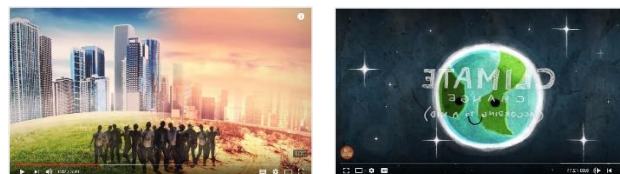
**Model notebook entries** can be found below at the Teacher’s NB. Use this resource to keep your notebook accurate.

**Bell work**

YouTube Science – Watch the video and respond to the questions below.

**As you observe consider the following:**

1. How do these videos make us feel different?
2. What is the intention of each videos message?
3. Why do we need to consider where/who our information comes from?



YouTube Video Link – PAPER RC MODEL

**Linked Documents and Class Resource**

[Teacher’s NB 10/18](#)

[Lab 2-1 CO<sup>2</sup> Lab / The Green House Effect](#)

**SCIENCE FAIR LINK!**

**District Content Descriptor:**

Construct, use, and present oral and written arguments supported by empirical evidence and scientific reasoning to support or refute an explanation or a model for a phenomenon. (07-PS3-5)

**PS3.A: Definitions of Energy**

Temperature is a measure of the average kinetic energy of particles of matter. The relationship between the temperature and the total energy of a system depends on the types, states, and amounts of matter present. (07-PS3-3),(07-PS3-4)

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Date: October 19, 2018

School Day: 043

**Learning Objectives – “Students can...”**

1. Share ideas by writing a paragraph in their science journal. (BW)
2. Quiz 8-1: Labs & Notebook Concepts

**Assessment**

In-class completion of the notebook/bell work  
Quiz 8-1: Labs & Notebook Concepts

**Homework**

1. Complete CO<sup>2</sup> Lab Graphing & Conclusion – 10/22
2. Science Fair Materials List & Data Collection – 10/22

**Reminders / DO NOT COPY**

**Science Fair Projects are due in class – 11/26**

**Model notebook entries** can be found below at the Teacher’s NB. Use this resource to keep your notebook accurate.

**Bell work**

Science Journal: Day 8

Complete a paragraph containing no less than five additional sentences that continue the lead below.

**“We do not have another Earth...”**

**Linked Documents and Class Resource**

[Teacher’s NB 10/19](#)

Quiz 8-1\*

[SCIENCE FAIR LINK!](#)

[Lab 2-1 CO<sup>2</sup> Lab / The Green House Effect](#)

**District Content Descriptor:**

Construct, use, and present oral and written arguments supported by empirical evidence and scientific reasoning to support or refute an explanation or a model for a phenomenon. (07-PS3-5)

**PS3.A: Definitions of Energy**

Temperature is a measure of the average kinetic energy of particles of matter. The relationship between the temperature and the total energy of a system depends on the types, states, and amounts of matter present. (07-PS3-3),(07-PS3-4)

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**Vocabulary 4-1 – Climate Science / Thermal Energy**

You are expected to familiarize yourself with these concept terms – complete the terms that are (\*) as part of the weekly bell work.

<b>Vocabulary Term</b>	<b>Definition</b>
Atmosphere	<i>The thin layer of gases that surround our planet.</i>
Abiotic Factors*	<i>The non-living parts of an ecosystem – Soil, Sunlight, Weather, etc.</i>
Convenience*	<i>Resources that function to make life easier but may not be necessary</i>
Anthropogenic	<i>Man-made or caused by human activity</i>
Biodiversity*	<i>Number of species that occupy an ecosystem</i>
Biotic Factors	<i>The living parts of an ecosystem – Consumers, Producers, Decomposers</i>
Carrying Capacity*	<i>The number of organisms that can exist within any given space given their demand on resources</i>
Green-Solutions	<i>Answers to problems that have low-ecological footprints – Are less harmful to the environment</i>
Limiting Factors*	<i>Space, Food, Mate Selection are all examples of resources that may limit the size of a population of organisms based on availability and competition</i>
Industry	<i>Human activity – Focusing on the processing of raw materials and manufacturing</i>
Biogeochemical cycles	<i>The processes by which chemical substances and compounds move through the Earth's systems (hydrologic, geologic, etc.)</i>
Combustion	<i>The process of burning something – A chemical change.</i>