

Learning Objectives – “Students can...”

1. Analyze new concept vocabulary – Vocabulary Enhancement (BW)
2. Sharing Science Fair Topic/Questions & Completing Lab 4-1 Thermal Observation Graph & Conclusion

Assessment

In-class completion of the notebook/bell work
Sharing Science Fair Topic/Questions & Completing Lab 4-1 Thermal Observation Graph & Conclusion

Homework

1. Completing Lab 4-1 Thermal Observation Graph & Conclusion – 10/9
2. Complete BW vocabulary (5 terms) – 10/10
3. Notebook Assessment 4-1 (Self Reflection) – 10/10
4. Science Fair Topics / Experimental Procedures – 10/15

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 10/8](#)

[Lab 4-1 Obs. Data Collection Handout](#)

[Vocabulary 4-1](#) ↓

[Science Fair Experimental Procedures Handout](#) ↓

[SCIENCE FAIR LINK!](#)

[Science Fair Design SAMPLE](#)

[Lab 4-1 SAMPLE](#)

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*

Date: October 9, 2018

School Day: 035

Learning Objectives – “Students can...”

1. Analyze and respond to our weekly Science Article: Climate Science for Kids (BW)
2. Lab 4-1 → Lab 2-1 CO² Lab: Applying Concepts / Density and Thermal Properties of Our Atmosphere (Green House Effect Lab)

Assessment

In-class completion of the notebook/bell work
Complete CO² Lab Question & Hypothesis

Homework

1. Complete BW vocabulary (5 terms) – 10/10
2. Notebook Assessment 4-1 (Self Reflection) – 10/10
3. Complete CO² Lab Question & Hypothesis – 10/15
4. Science Fair Topics / Experimental Procedures – 10/15

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 good-practice reading techniques, read this week’s science article. When you finish reading, complete the article questions below.

1. **Identify the most abundant greenhouse gas and explain how humans have contributed to its recent increase.**
2. **Using the list “Impacts of Climate Change” – Identify two that are most common to Kentucky.**
3. **What is the difference between climate and weather?**
4. **Identify two ways you can help to reduce greenhouse gas?**

Linked Documents and Class Resource

[Teacher’s NB 10/9](#)

[Science Article: Climate Science for KIDS](#)

[Lab 2-1 CO² Lab / The Green House Effect](#)

[Vocabulary 4-1](#) ↓

[Science Fair Experimental Procedures Handout](#) ↓

[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

Date: October 10, 2018

School Day: 036

Learning Objectives – “Students can...”

1. Use critical thinking to solve a problem. (BW)
2. Notebook Assessment 4-1: Self Reflection

Assessment

In-class completion of the notebook/bell work
Notebook Assessment 4-1: Self Reflection

Homework

1. Quiz 7-1: Labs & Notebook Concepts – 10/12
2. Complete CO² Lab Question & Hypothesis – 10/15
3. Science Fair Topics / Experimental Procedures – 10/15

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.**

Calculate the average temperature of the table in Fahrenheit degrees. Round the final answer to the nearest whole number.

21.5° C	28° C
32° C	85° F
67.1° F	77° F

Linked Documents and Class Resource

[Teacher’s NB 10/10](#)

[Lab 2-1 CO² Lab / The Green House Effect](#)

[NB Assessment Rubric](#)

[SCIENCE FAIR LINK!](#)

Science Fair Experimental Procedures Handout ↓

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 9: October 8 - 12, 2018

©Weger 2018 - 19

Date: October 11, 2018

School Day: 037

Learning Objectives – “Students can...”

1. ~~Analyze and respond to the YouTube Q Review. (BW)~~
2. Ecology Lesson #2 / Bill Nye – Stuff Happens / Handout Q & A

Assessment

In-class completion of the notebook/bell work
Ecology Lesson #2 / Bill Nye – Stuff Happens / Handout Q & A

Homework

1. Quiz 7-1: Labs & Notebook Concepts – 10/12
2. Complete CO² Lab Question & Hypothesis – 10/15
3. Science Fair Topics / Experimental Procedures – 10/15

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 watch today’s **BILL NYE ECOLOGY LESSON / STUFF HAPPENS** compete the handout. Handouts contain assessment content and will be collected at the end of class.

STUFF HAPPENS: BREAKFAST



Linked Documents and Class Resource

[Teacher’s NB 10/11](#)

[SCIENCE FAIR LINK!](#)

[NB Assessment Rubric](#)

Science Fair Experimental Procedures Handout ↓

[Lab 2-1 CO² Lab / The Green House Effect](#)

Stuff Happens / Breakfast Handout*

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)

Fayette County
2018-19
District Content Map

Week 9: October 8 - 12, 2018

©Weger 2018 – 19

Date: October 12, 2018

School Day: 038

Learning Objectives – “Students can...”

1. Share ideas by writing a paragraph in their science journal. (BW)
2. Quiz 7-1: Labs & Notebook Concepts

Assessment

In-class completion of the notebook/bell work
Quiz 7-1: Labs & Notebook Concepts

Homework

1. Complete CO² Lab Question & Hypothesis – 10/15
2. Science Fair Topics / Experimental Procedures – 10/15

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 7

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

“I think next quarter I would like too”

Linked Documents and Class Resource

[Teacher’s NB 10/12](#)

Quiz 7-1*

[SCIENCE FAIR LINK!](#)

[Lab 2-1 CO² Lab / The Green House Effect](#)

[Science Fair Experimental Procedures Handout](#) ↓

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)

Fayette County
2018-19
District Content Map

Week 9: October 8 - 12, 2018

©Weger 2018 - 19

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.

Vocabulary Term	Definition
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>

Science Fair²

Experimental Procedures

Objective: Outline your experiment by accurately demonstrating how you will test, measure/collect data and graph your results. *If you find you cannot think of a way to do these fundamental steps in experimentation, you may find you do not have an appropriate experimental question.*

What will you measure as part of your experimentation? *As you collect data you must have numerical evidence.*

EXAMPLES: Time, Distance, Accuracy, Population Ratios, etc.

How will you use this data to answer your topic/question?

What variables are conditions of your experiment?

Independent	Dependent	Control Group

What results will qualify your hypothesis as successful/unsuccessful?

<i>Successful</i>	<i>Unsuccessful</i>