

Jones's Guide to the Galaxy

Pre-Unit

Introduction to Science/Lab Safety

Week at a Glance

WEEK OF: 9/14/2020

6th Grade Earth Science

Mr. R. Jones

Pre-Unit Introduction to Science/Lab Safety
Jones's Guide to the Galaxy | 6th Grade Earth Science

LEARNING TARGETS

SCIENTIFIC METHOD

- I can design and perform a controlled experiment by writing a testable hypothesis and using the scientific method.
- I can identify the components of a controlled experiment: independent variable, dependent variable, controlled variable(s), and control and experimental groups.
- I can collect appropriate and reliable qualitative and quantitative data, record it in a table, and visually represent data in tables and graphs.
- I can analyze and communicate the results of an experiment.
- I can draw logical conclusions based on data collected from an experiment.
- I can identify sources of error in an experiment by explaining how these errors affect results and describing how these can be corrected.

LAB SAFETY

- I can use safe procedures and appropriate behavior in the **science** classroom and lab.
- I can identify and appropriately use safety devices/tools in the **science** lab.
- I can explain appropriate tools for a **science** lab setting.
- I can identify safety precautions according to the symbols MSDS stands for; locate the form and interpret its meaning.
- I can identify lab equipment/tools and demonstrate how to use them appropriately.



THIS WEEK WE'RE LEARNING TO

SCIENTIFIC METHOD

- Identify the steps of the Scientific Method and how they're useful in our life
- Communicate scientific ideas and raise questions about the world through observing and experimenting
- Determine how scientists investigate Earth's natural processes
- Use different variables to show how they relate to one another, and effect change in each other

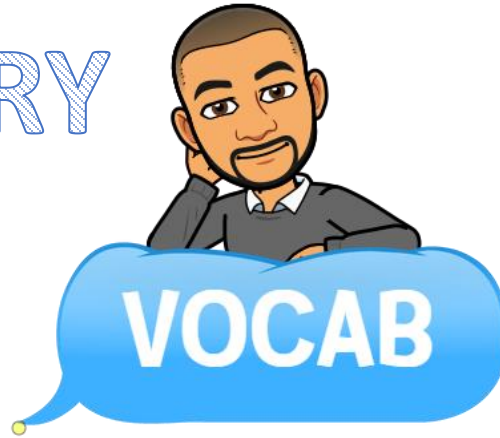
LAB SAFETY

- Procedures for accidents in the science lab
- Location of safety equipment in the science lab
- The consequences for not using safety equipment/following safe practice
- The importance of preparation in scientific investigations



Pre-Unit Introduction to Science/Lab Safety
Jones's Guide to the Galaxy | 6th Grade Earth Science

VOCABULARY



SCIENTIFIC METHOD

- accuracy
- analysis
- conclusion
- controlled experiment
- data table
- data
- dependent variable
- experiment
- graph
- hypothesis
- Independent variable
- inference
- Metric units
- observation
- qualitative data
- quantitative data
- scientific method
- SI units
- significant figures
- trial
- variable
- peer review
- precision
- percent error
- reliability
- validity

VOCAB QUIZ : 9/11/2020

LAB SAFETY

- carcinogen
- caustic
- corrosive
- goggles
- fire blanket
- flammable
- hazardous
- irritant
- toxic
- waste container



Monday: September 14, 2020

LESSON 1: Lab Safety & Understanding Science

WORK SECTION	TASK
Warm-Up	Show What You Know: Science Safety Pre-Test
Opening	Essential Questions/Lab Safety Rules
Work Session	Graphic Organizer for Lab Safety (Rules, Vocab) Review and Evaluate Science Safety Pre-Test
Closing	Reinforce Vocab
Vocab Covered	Science, Critical Thinking, Observation, Hypothesis, Prediction, Inference, Technology, Scientific Method/Theory, Scientific Scientific Law
Homework/Reminders	Read Lesson 1 pgs: 2-9, Complete pgs:10-14 Study Graphic Organizer and Pre-Test QUIZ: <u>Friday 9/11/2020: Lab Science Safety/Vocab</u>



Tuesday: September 15, 2020

LESSON 2: Measurement & Scientific Tools

WORK SECTION	TASK
Warm-Up	Reinforce Vocab: Cahoot Activity
Opening	Homework Review Read Lesson 2/Measurements Identification
Work Session	Measurements Worksheet Using Notes
Closing	Review Worksheet for Participation & Reinforcement
Vocab Covered	Description, Explanation, International System of Units (SI), Significant Digits,
Homework/Reminders	Read Lesson 2 pgs: 15-21, Complete pgs: 22-25 Study Graphic Organizer, Pre-Test, Lesson 1 Notes QUIZ: <u>Friday 9/11/2020: Lab Science Safety/Vocab</u>



Wednesday: September 16, 2020

LESSON 3: Case Study

WORK SECTION	TASK
Warm-Up	Reinforce Connection: Pre-Fixes & SI Units (Mini-Activity)
Opening	Tying it Together: OHP, Experiments, Conclusion, Variables
Work Session	Understanding Experiments
Closing	Order of Operations, Repeating Steps
Vocab Covered	Dependent Variable, Independent Variable, Control Group, Variable, Revised Hypothesis
Homework	Read Lesson 3 pgs: 26-34, Complete pgs: 35-36 Study Graphic Organizer, Pre-Test, Lesson 1 Notes QUIZ: <u>Friday 9/11/2020: Lab Science Safety/Vocab</u>



Thursday: September 17, 2020

LESSON 3: REVIEW DAY

IN CLASS: JEOPARDY GROUP REVIEW

CONCEPT	WHAT TO STUDY
Lab Safety	Graphic Organizer, Pre-Test
Understanding Science	Lesson 1 Reading pgs: 2-9 , Homework pgs:10-14
Measurements & Scientific Tools	Lesson 2 Reading pgs: 15-21 , Homework pgs: 22-25 Pre-Fixes/SI Units (Mini Activity)
OHP, Variables	Lesson 3 pgs: 26-34 , Homework pgs: 35-36
Vocabulary	QUIZLET: Online Flash Cards



Friday: September 18, 2020

WORK SECTION	TASK
Warm-Up	LMR: LAST MINUTE REVIEW QUESTIONS? COMMENTS? CONCERNS?
Assessment	QUIZ 1 LAB SAFETY, UNDERSTANDING SCIENCE, MEASUREMENTS, SCIENTIFIC METHOD, VOCABULARY
Extra Credit	Write 1 Paragraph about an Experiment you'd like to perform. What's your independent variable? What's your dependent variable?



RESOURCES

VOCABULARY
ONLINE FLASHCARDS



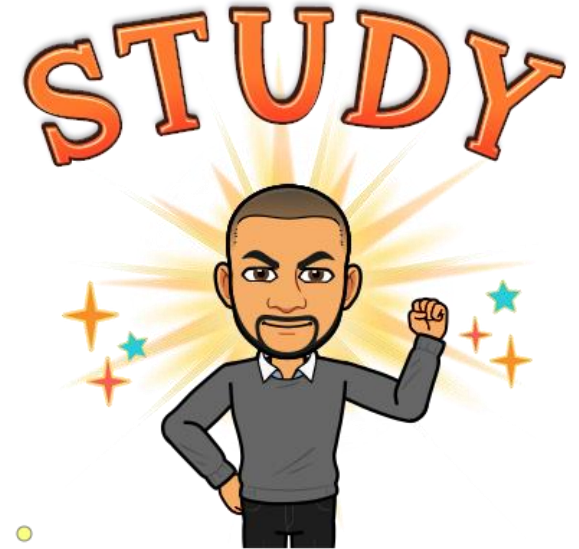
CLICK [HERE](#) TO
STUDY VOCAB!

ONLINE
TEXTBOOK



CLICK [HERE](#) TO
READ THE BOOK!

CLASSWORK/
HOMEWORK



SEE SLIDE 8 FOR
NOTES OVERVIEW

GRADES & ASSIGNMENTS FOR THE WEEK

PRE-UNIT: INTRODUCTION TO SCIENCE/LAB SAFETY					
Day of the Week	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
Daily Points 5%	Participation 5 Points	Participation 5 Points	Participation 5 Points	Participation 5 Points	Participation 5 Points
Formative 30%	Graphic Organizer 10 Points	Measurement Worksheet 10 Points	Pre-Fixes & SI Units Mini-Activity 10 Points	Jeopardy Review 10 Points	
Homework/Other 5%	Homework pgs:10-14 5 Points	Homework pgs:22-25 5 Points	Homework pgs: 35-36 5 Points	Quizlet Review 5 Points	
Summative 60%					Quiz 1 20 Points
Total	20 Max Points	20 Max Points	20 Max Points	20 Max Points	25 Max Points

WEEK @ A GLANCE

READY

QUESTIONS?

COMMENTS?

CONCERNS?

EMAIL ME: jonesri2@boe.richmond.k12.ga.us

