Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Inman **Orientation**

**6th Grade Science**

**Have you ever wondered…**

* Why the moon seems to change shape?
* Where mountains and oceans come from?
* Why sea creature fossils are sometimes found at the tops of mountains?
* If Pluto is the farthest thing from our sun in the solar system?
* How we REALLY know the Earth is not in center of the solar system?
* If the Earth is closer to the sun in summer?
* What a “Big Bang” really is, and why the name sounds so funny?
* Why scientists like to go to Antarctica to do research if it’s all ice (not to mention, REALLY cold)?
* Why pictures of kangaroos in Australia aren’t “upside down” if Australia is on the “bottom” of the globe?
* What makes a tsunami happen, and why we are unlikely to have one off Georgia’s coast?
* Why water from a well (underground) is “fresh”?
* How you can tell what made a valley?
* Why tidal waves have nothing to do with tides?
* Why shooting stars aren’t stars?
* How scientists know the planet is getting warmer?
* What makes climate change so controversial?
* Why there’s not an eclipse of the moon every month?
* How the Earth got its “tilt”?
* What clouds are made of?
* Why, if no one was around when dinosaurs roamed, we KNOW so much about them?
* Which dinosaurs are still alive (not your old, ancient science teacher, but an actual type of animal)?

**If so, we can probably help you…**

E-mail: [spence.ford@atlanta.k12.ga.us](mailto:spence.ford@atlanta.k12.ga.us), [jhughes@atlanta.k12.ga.us](mailto:jhughes@atlanta.k12.ga.us), [mnunnink@atlanta.k12.ga.us](mailto:mnunnink@atlanta.k12.ga.us), [mvaughn@atlanta.k12.ga.us](mailto:mvaughn@atlanta.k12.ga.us)

**Tutorial Time: Mr. Ford Wednesday 4:20-5:20pm**

**Ms. Hughes Monday 7:40-8:40am**

**Ms. Nunnink Friday, 7:40-8:40 am**

**Ms. Vaughn Monday, 4:20-5:20pm**

**Supplies:**

* Note cards
* Grid-ruled Composition book
* Blue or black pen
* Colored pencils/markers/highlighter
* Glue stick

CHECK MARK GRADING

* ++ = 100%
* + = 95%
* = 85%
* - = 75%
  + = 65 %

**Rules**

Always consider:

Respect,

Readiness &

Responsibility

**What are we going to learn about this year?**

Unit #1- Geology (Structure of the Earth)

Unit #2- Geology (Rocks and Minerals)

Unit #3- Geology (Weathering & Erosion)

Unit #4- Hydrology (Water in Earth Processes)

Unit #5- Meteorology (Weather & Climate)

Unit #6- Astronomy (Scale & Contents of Universe)

Unit #7- Astronomy (Earth, Moon, Sun)

Unit #8- Sustainability and Population (Human Impact)

**YOUR GRADE:**

Tests            30%

Quizzes              20%

Labs/Projects      30%

Independent Practice 20%

**Want to be successful? Try this:**

Everydayhave:

* Index Cards
* Composition Book (if you took it home!)
* Black or Blue Pen
* Answers to homework
* A positive attitude

Everydaydo:

1. Fill out your agenda with the homework from the board
2. Read (and DO) what it says in the box on the board labeled: “Get Started NOW!”
3. Have on your desk: your note cards, pen, colored pencils and composition book; put everything else on the floor.

THERE IS NO TALKING FOR THE FIRST FIVE MINUTES OF CLASS.

**Systems:**

Inbox/Outbox is located near the student supplies. Use them. Inbox= to me, outbox=to you.

Leave your notebook here if there’s a chance you’ll return without it. Trust me, you don’t want to go without it.

Get a science buddy. Today. Find someone who looks smart, and interesting, and doesn’t miss a lot of school. Exchange contact info with this person **now**. Use the Google calendar on my website if you are absent, or not.

**Science Safety Rules:**

* Horseplay in the classroom is dangerous. I will practice appropriate conduct in the classroom, such as: walking, using inside voices, keeping my hands to myself. I will keep my mind and eyes on what I am doing.
* I will follow all instructions concerning procedures and precautions. They are for my protection.
* Experiments in class are for instruction. They are planned to teach an idea or concept. I will perform only authorized experiments.
* I will handle only chemicals or equipment for which I have instruction. I will be careful with handling and storage of chemicals, equipment, and sharp objects.
* I will always read the label to make sure I am using the correct substance. Mixing and handling chemicals or other substances can be dangerous. I will not do so unless instructed in a planned and approved experiment.
* When working with ﬁre, I will not reach across a ﬂame or bring any unauthorized substances near ﬂames. I will not burn objects. I will keep long hair away from ﬁre. I will never leave a flame unattended.
* Safety equipment is provided in the science classroom in case of an emergency. I will tell a teacher immediately if there is an emergency.
* It is required by law to wear safety goggles for many laboratory situations. To prevent injury, I will wear my goggles as instructed by the teacher.
* I will not eat or drink in lab.
* I will be careful not to write in books, on tables, on lab counters, or on desks.
* I will clean up after myself and my teammates.
* Cheating and/or plagiarism will result in a discipline referral, and an alternate assignment will be given. All work must be completely my own.
* I will work to stop any bullying going on around me. I will not stand by or join in when someone is hurt (even if it’s “only” with words).

**Print your name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I have read this document. I understand these rules/policies/guidelines have been created for my protection and success. By signing, I agree to follow them and do my part to help make my science classroom a safe place to learn.

**Signature of student:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pre-Test Inman Style: Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Class\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Why does the moon have phases **and** eclipses? Draw pictures or use words to explain.
2. Why does hot air rise?
3. You’re in a rocket, travelling at the speed of light (you can’t actually do this, but just pretend). How long does it take you to get to the next closest star to our solar system? Why?
4. Draw a picture of the solar system, the galaxy and the universe (you can draw one picture with all three, or three different pictures). LABEL each of the three.
5. What was the big bang and why does it have that name?
6. Why do we have seasons? Draw a picture or describe in words.
7. Where do rocks come from and what are they made of?
8. What happens to make more, new rocks on the planet?
9. What makes rain happen? How is it different from snow?
10. A. How old is the Earth?

B. How do we know?

1. A. Why are the continents in different places than they were when dinosaurs roamed the land?
2. How do we know?
3. A. Why don’t thunderstorms happen every day?

B. Why doesn’t it get cold enough for a blizzard in Atlanta?

1. How much does a hurricane weigh?
2. True/False: Clouds are made only of water. WHY or WHY NOT?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. True/False: Climate change is preventable. WHY or WHY NOT? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. True/False: Dinosaurs and humans lived side by side before the dinosaurs became extinct.
5. True/False: Science understands more about the moon than the ocean floor
6. What EXACTLY are clouds made of? If you can, draw a picture of what happens to create one.
7. A. True/False: Shooting stars can be seen every night.

B. True/False: Comets can be seen every night.

C. True/False: Asteroids can hit the Earth.

D. True/False: It takes almost a year to travel to Mars with current technology

1. How much (what percent) of the water on Earth is fresh? How much (what percent) is salty?
2. Where do we get fresh water (list as many sources as you can)?
3. You’ve won a lottery to go to the bottom of the ocean in a very special submarine with James Cameron (he’s the only person on the planet that’s done this so far, and you get to be second!). What will you see when you arrive? What other things could you see if you were to stay at those depths for months, and travel around the globe under the sea?