



Lesson Plan: Did You Know... 4th Grade

Grade Level: 4

Subject: Science

Duration: 45-60 min

4-LS1-1: Construct an argument that plants and animals have internal and external structures that function to support survival, growth, behavior, and reproduction.

Learning Objectives

By the end of this lesson, students will be able to:

- **Identify** fascinating scientific facts about the human body, plants, and animals
- **Explain** key physical and earth science facts, such as the speed of light and characteristics of the solar system



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Materials Needed: (all links are included in this PDF)

- Study Guide: Did You Know... 4th Grade (<https://newpathworksheets.com/api/guide/study-guide-science-grade-4-did-you-know-4th-grade.pdf>)
- Practice Worksheet 1 (<https://newpathworksheets.com/api/worksheet/worksheet-science-grade-4-did-you-know-4th-grade-0.pdf>)
- Practice Worksheet 2 (<https://newpathworksheets.com/api/worksheet/worksheet-science-grade-4-did-you-know-4th-grade-1.pdf>)
- Practice Worksheet 3 (<https://newpathworksheets.com/api/worksheet/worksheet-science-grade-4-did-you-know-4th-grade-2.pdf>)



Lesson Procedure

Step 1: Introduction (5 minutes)

- Hook students by asking: 'Did you know that lightning is hotter than the surface of the sun? What other amazing science facts do you know?'
- Explain that science covers everything from the tiny cells in our bodies to the giant planets in our solar system.
- Briefly introduce the broad categories we will explore today: Human Body, Plants, Animals, Earth, Solar System, and Physics.

Step 2: Direct Instruction (15 minutes)

- Distribute the Study Guide and read through the 'Amazing Scientific Facts' together as a class. (<https://newpathworksheets.com/api/guide/study-guide-science-grade-4-did-you-know-4th-grade-1.pdf>)



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- Instruct students to complete Practice worksheet 2 independently or in pairs. (<https://newpathworksheets.com/api/worksheet/worksheet-science-grade-4-did-you-know-4th-grade-1.pdf>)
- Ask students to focus on the biology and earth science questions, such as identifying the largest bone or the hardest natural substance.
- Circulate the room to offer support and ensure students are using the study guide effectively to check their answers.

Step 5: Assessment (10 minutes)



- Use Practice Worksheet 3 as a quick summative assessment covering the lesson's broad scientific topics. (<https://newpathworksheets.com/api/worksheet/worksheet-science-grade-4-did-you-know-4th-grade-2.pdf>)
- Review the answers together, allowing students to correct any misconceptions about animal classifications or body systems.
- Collect the completed worksheets to evaluate student comprehension and factual retention.

Differentiation Strategies

For advanced learners:

- Challenge students to research and present their own 'Did You Know?' science fact to the class.
- Have students classify the facts they learned into three categories: Life Science, Earth



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Complete List of Available Resources:

- Topic: Did You Know... 4th Grade (<https://newpathworksheets.com/science/grade-4/did-you-know-4th-grade>)
- Study Guide: Did You Know... 4th Grade (<https://newpathworksheets.com/api/guide/study-guide-science-grade-4-did-you-know-4th-grade.pdf>)
- Practice Worksheet 1 (<https://newpathworksheets.com/api/worksheet/worksheet-science-grade-4-did-you-know-4th-grade-0.pdf>)



- Practice Worksheet 2 (<https://newpathworksheets.com/api/worksheet/worksheet-science-grade-4-did-you-know-4th-grade-1.pdf>)
- Practice Worksheet 3 (<https://newpathworksheets.com/api/worksheet/worksheet-science-grade-4-did-you-know-4th-grade-2.pdf>)



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DID YOU KNOW?

Amazing Scientific Facts

There are SO many amazing scientific facts to know! You may learn new and exciting facts related to science everyday! When you hear a new fact, share it with a friend, teacher, or family member. They will be glad you did!

Here are some facts you may or may not know.

Your Body: DID YOU KNOW?

Viruses use plant and animal cells to reproduce and make more viruses. They can not reproduce on their own. When you are sick, viruses use your OWN cells to help spread the virus around your body. Not very nice, but it's true. Good thing you have your army of white blood cells!



The illustration shows a group of diverse children standing on a green grassy field. Above them are four thought bubbles containing various scientific and mathematical icons: a cube, a microscope, a protractor, a globe, a balance scale, a red flask, a target, an atom symbol, a pie chart, a bar graph, and a calculator. The word 'PREVIEW' is written in large, bold, blue and orange letters below the children. Below the preview text, it says 'Please [Sign In](#) or [Sign Up](#) to download the printable version of this worksheet'.

considered a muscle, a cardiac muscle.

The **largest bone** in your body is your femur, which is your thigh bone.

Plants: DID YOU KNOW?

If you make a mark on the **trunk of a tree**, it will remain the same distance from the ground! Interesting huh? Trees grow in height through the elongation of the tips of their branches, meaning they grow from the top of the branches and trunk up.



Cotton clothes, many medicines, rope, string, rubber, dyes, and paint are all made from PLANTS.

Giant Sequoia trees are among the **tallest** (can grow up to 250 feet), **widest**, and **fastest** growing trees in the world.



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a Monarch butterfly, which has poison to protect itself. Don't they look a lot alike?



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Viceroy



Monarch

Worms are invertebrates. Finding worms in your garden is a GOOD thing; it means the soil in your garden is healthy.

Animals: DID YOU KNOW?



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A rabbit is an herbivore, meaning it only eats plants. A fox is a carnivore, since it only eats other animals. Did you know a big ferocious bear is an **omnivore**, meaning it eats plants and other animals?

Natural Disasters: DID YOU KNOW?

The top four largest recorded earthquakes in the United States, including one with a magnitude 9.2, all occurred in the same state, Alaska. The largest US earthquake occurred in 1964 in Prince William Sound, Alaska. The other top four US largest earthquakes struck Alaska in 1957, 1965, and 1938.

Earth: DID YOU KNOW?

Earth is estimated to be between 4-5 **billion years old**.

The deepest spot in all the oceans is called the **Mariana Trench** in the Pacific Ocean and is approximately 35,797 feet or 10,911 meters deep.


Angel Falls in Venezuela is the **largest waterfall** in the world, dropping water from 3,212 feet (979 meters).

Based on the average number of rainy days received in a year, the place

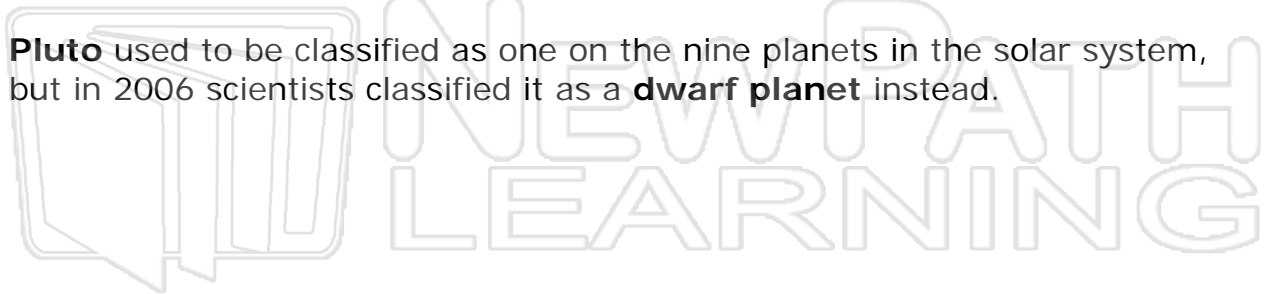


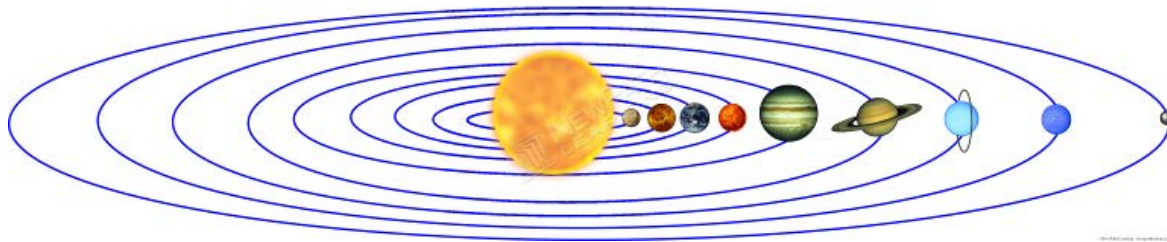
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Pluto used to be classified as one on the nine planets in the solar system, but in 2006 scientists classified it as a **dwarf planet** instead.





Matter: DID YOU KNOW?

When **dry ice** changes states it goes from being a solid directly to being a gas, carbon dioxide.

Gravity: DID YOU KNOW?

A mechanical pencil depends on gravity to work. The lead inside a mechanical pencil drops into place because of gravity; without it the lead would **not drop down** as it needs to for the pencil to work properly. So a mechanical pencil would not work in space, which is good to know if you're



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Amplification
Stimulated by
Emission of
Radiation

Sound: DID YOU KNOW?

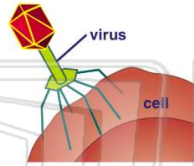
Sound waves travel 1,088 feet per second. **Light travels** at the speed of 186,000 feet per second. This explains why we see lightning before hearing thunder.



Name _____ Class _____ Date _____

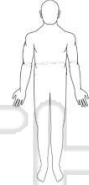
1 **Viruses** use plant and animal _____ to reproduce and make more viruses; they **can not reproduce** on their own.

- A bodies
- B cells
- C hair
- D blood



2 There are **millions of different types of cells**, including cells that only function when **part of a large organism**, such as _____.

- A amoeba cells
- B bacteria cells
- C the cells of the human body
- D unicellular organisms



3 If you make a **mark** on the **trunk of a tree**, over time it will:

- A grow taller with the tree
- B grow higher off the ground
- C remain the same distance from



4 Cotton clothes, many medicines, rope, string, rubber, dyes, and paint are all made from _____.

- A plants
- B soil



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- A run
- B see
- C hear
- D fly

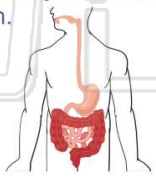


- C shark
- D killer whale



9 The _____ is **one of the largest systems** in a human body and is, from mouth to anus, approximately 30 feet, or about 9 meters, in length.

- A urinary tract
- B respiratory system
- C digestive tract
- D endocrine system



10 There are over **600 muscles** in the human body. Which **organ** is considered a muscle in your body?

- A kidney
- B heart
- C liver
- D brain

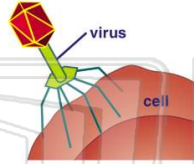




Name _____ Class _____ Date _____

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- A bodies
- B cells
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B

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C

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C

4 Cotton clothes, many medicines, rope, string, rubber, dyes, and paint are all made from _____.

- A plants
- B soil



A

5



C

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A

- A run
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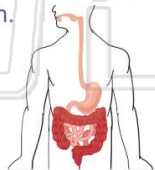
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The _____ is **one of the largest systems** in a human body and is, from mouth to anus, approximately 30 feet, or about 9 meters, in length.

- A urinary tract
- B respiratory system
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C

10

There are over **600 muscles** in the human body. Which **organ** is considered a muscle in your body?

- A kidney
- B heart
- C liver
- D brain



B



Name _____ Class _____ Date _____

1 The **largest bone** in your body is your _____, which is your thigh bone.

- A femur
- B tibia
- C cranium
- D ulna



2 Organisms are **classified** by how many cells they are made of, whether their cell(s) have _____ or not, how they get their food, and even by how they move.

- A cytoplasm
- B a cell wall
- C a nucleus
- D a membrane



3 A scientist who **studies fossils** is called a _____.

- A biologist
- B zoologist
- C botanist



4 The _____ trees are among the **tallest** (can grow up to 85 m), **widest**, and **fastest growing** trees in the world.

- A Giant Fern
- B Giant Maple



5



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- C Alaska
- D California



D 4 - 5



9 The **deepest spot** in all the oceans is called the **Mariana Trench** and is approximately 35,797 feet, or 10,911 meters, deep in the _____ Ocean.

- A Pacific
- B Atlantic
- C Indian
- D Southern



10 **Angel Falls** in _____ is the **tallest waterfall** in the world, dropping water from 3,212 feet (979 meters).

- A Venezuela
- B the United States
- C China
- D Australia





Name _____ Class _____ Date _____

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- A femur
- B tibia
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A

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C

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D

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C

5



A

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D

- C Alaska
- D California



D 4 - 5



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A

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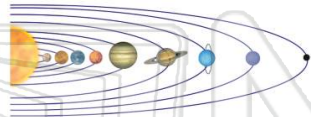
A



Name _____ Class _____ Date _____

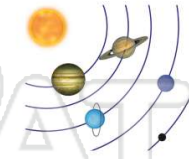
1 _____ is the **largest planet** in the solar system. It is so large that all the other planets in the solar system could fit inside of it!

- A Uranus
- B Neptune
- C Saturn
- D Jupiter



2 _____ used to be classified as one of the nine planets in the solar system, but in 2006 scientists classified it as a **dwarf planet** instead.

- A Mars
- B Pluto
- C Neptune
- D Uranus



3 Based on the average number of rainy days received in a year, the place that has the **most rainy days in a year** in the world is **Mt. Wai-ale-ale** in _____, which has over 350 days of rain each year.

- A Peru

4 The **lowest temperature** recorded in the world is **-89.6°C** in _____ on July 21, 1983.

- A Antarctica
- B Alaska



5



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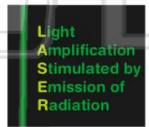
- D 29,000 km per second

- C 5,000°C
- D 500,000°C

9

The word **laser** is an acronym for **L**ight **A**mplification **S**timulated by **E**mission of **R**adiation. A laser is a device used to concentrate light into a narrow beam. **What is one way lasers are used?**

- A in DVD players
- B in a mechanical pen
- C in a television
- D in a clock



10

Sound waves travel **340.29 meters per second**. **Light** travels at the speed of **299,742,458 meters per second**. This explains why _____.



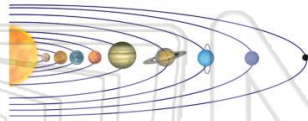
- A we can hear raindrops
- B we see lightning before hearing thunder
- C we hear thunder before we see lightning
- D thunder is so loud



Name _____ Class _____ Date _____

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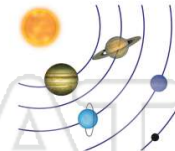
- A Uranus
- B Neptune
- C Saturn
- D Jupiter



(D)

2 _____ used to be classified as one of the **nine planets** in the solar system, but in 2006 scientists classified it as a **dwarf planet** instead.

- A Mars
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- D Uranus



(B)

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(D)

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(A)

5



(C)

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(A)

- D 29,000 km per second

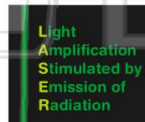
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(A)

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(B)