



---

# Universe Expanding Rapidly: Scientists Confirm Speed

## Description

Scientists have found that space is getting bigger faster than they expected. They looked at a group of galaxies 300 million light-years away to figure this out.

For a long time, scientists have known that the universe started small and is now full of galaxies spread out. But it's still a mystery how this happened. There are forces we don't fully understand at play.

By studying how fast galaxies are moving away from each other, we can calculate the rate of expansion of the universe. However, different methods give different results, causing a problem in the scientific community.

Scientists recently measured the distance to a galaxy cluster called Coma. This helped confirm the speed at which space is expanding near us. But there are still differences in measurements made using other methods.

This challenge in understanding the universe is exciting for scientists because it might lead to new discoveries and change our current understanding of the cosmos.

---

## Vocabulary List:

1. **Galaxies** /'gæləksɪz/ (noun): Large systems of stars stellar remnants interstellar gas dust and dark matter bound together by gravity.
2. **Expansion** /ɪk'spænfən/ (noun): The process of increasing in size volume or scope.
3. **Universe** /'ju:nɪvɜ:rs/ (noun): All matter and space considered as a whole; the cosmos.
4. **Calculated** /'kæl.kjʊ.leɪ.tɪd/ (verb): Determined mathematically or logically.
5. **Mystery** /'mɪstəri/ (noun): Something that is difficult or impossible to understand or explain.
6. **Discovery** /dɪs'klʌvəri/ (noun): The act of finding or learning something for the first time.

## Vocabulary quizzes

### Multiple Choice ( Select the Correct answer for each question. )

1. Who first discovered the process of photosynthesis?

Option: Joseph Priestley

Option: Isaac Newton

Option: Marie Curie



---

Option: Albert Einstein

2. What do we call the vast expanse that contains galaxies stars planets and everything in existence?

Option: Atmosphere

Option: Universe

Option: Solar System

Option: Constellation

3. Which of the following chronic diseases is often linked to an imbalance in blood sugar levels?

Option: Diabetes

Option: Hemophilia

Option: Malaria

Option: Tuberculosis

4. In ancient times people sometimes \_\_\_\_\_ animals as part of religious rituals.

Option: Admired

Option: Sacrificed

Option: Protected

Option: Fed

5. A volcanic \_\_\_\_\_ can cause ash clouds lava flows and pyroclastic surges.

Option: Meditation

Option: Eruption

Option: Celebration

Option: Drought

6. What is data or information that supports a claim or proposition?

Option: Opinion

Option: Evidence

Option: Rumor

Option: Prediction

7. The seasonal movement of animals from one region to another is known as:

Option: Hibernation

Option: Navigation

Option: Migration

Option: Acceleration

8. Plants require sunlight water and \_\_\_\_\_ to grow and thrive.



- Option: Nutrients
- Option: Insects
- Option: Rocks
- Option: Metal

9. What are vast systems of stars gas and dust bound together by gravity?

- Option: Galaxies
- Option: Asteroids
- Option: Comets
- Option: Meteorites

10. When an author's work is made available to the public it is said to be \_\_\_\_\_.

- Option: Hidden
- Option: Printed
- Option: Published
- Option: Burned

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. When oxygen and hydrogen are \_\_\_\_\_ water is formed.

12. Scientists conducted a detailed \_\_\_\_\_ of the DNA sample to identify the genetic markers.

13. Suddenly a bright light \_\_\_\_\_ in the night sky startling the onlookers.

14. Organic matter undergoes a process of \_\_\_\_\_ as it breaks down over time.

15. The test results revealed a \_\_\_\_\_ connection between two seemingly unrelated variables.

16. The magician made the rabbit \_\_\_\_\_ from the hat much to the audience's delight.

17. The old abandoned house had a \_\_\_\_\_ aura that intrigued the neighborhood children.

18. Studies have found that lack of exercise is closely \_\_\_\_\_ to various health problems.

19. The archaeological team made an exciting \_\_\_\_\_ when they unearthed ancient



artifacts.

20. In the early stages of the caterpillar's life it will \_\_\_\_\_ from its chrysalis as a butterfly.

**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. The ability to acquire and apply knowledge and skills is often associated with this trait.
22. The act of becoming larger or more extensive.
23. An act or process of finding or learning something for the first time.
24. Gradually ceasing to be visible or exist.
25. A poisonous substance produced within living cells or organisms.
26. Something that is difficult or impossible to understand or explain.
27. The process of determining something by mathematical logical or other methods.
28. A religious or solemn ceremony consisting of a series of actions performed according to a prescribed order.
29. To make information or work available to the public through a printed or digital medium.
30. Cut into or shape (stone wood etc.) by cutting or using a tool.

## Answer

**Multiple Choice:** 1. Joseph Priestley 2. Universe 3. Diabetes 4. Sacrificed 5. Eruption 6. Evidence 7. Migration 8. Nutrients 9. Galaxies 10. Published

**Gap-Fill:** 11. Combined 12. Analysis 13. Appeared 14. Decay 15. Surprising 16. Disappear 17. Mysterious 18. Linked 19. Discovery 20. Emerge

**Matching sentence:** 1. Intelligence 2. Expansion 3. Discovery 4. Disappearing 5. Toxin 6. Mystery 7. Calculation 8. Ritual 9. Published 10. Carved

## CATEGORY

1. Health - LEVEL2

## Date Created



---

2025/01/23

**Author**

aimeeyoung99

ESL-NEWS.COM