Scientists Scan Giant Hailstones: Surprising Location Revealed!

Description

A dentist's scanner took detailed 3D images of big hailstones' insides for the first time. These clear pictures could help predict storms that create such damaging ice.

"The images were amazing," said Carme Farnell Barqué from Spain. "We saw different layers in the

hailstones without breaking them."

The hail fell during a strong storm in Spain in 2022. It caused casualties, injuries, and lots of damage. The largest hailstones measured 12 cm in diameter.

After the storm, Farnell Barqué and her team collected 14 hailstones from people who saved them in freezers.

Hailstones form when water layers freeze on an ice particle during a storm. The CT scanner showed unique layers within the hailstones.

This discovery could help forecast hailstone sizes in future storms better.

Vocabulary List:

1. **Hailstones** /ˈheɪlˌstoʊnz/ (noun): Balls or irregular lumps of ice that form during a storm.
2. **Damage** /ˈdæmɪdʒ/ (noun): Physical harm caused to something resulting in loss or injury.
3. **Predict** /prɪˈdɪkt/ (verb): To say or estimate that a specific thing will happen in the future.
4. **Casualties** /ˈkæʒuəltiz/ (noun): People who are killed or injured in a war or accident.
5. **Unique** /juˈniːk/ (adjective): Being the only one of its kind; unlike anything else.
6. **Forecast** /ˈfɔːrkæst/ (verb): To predict or estimate a future event or trend often related to weather.

Vocabulary quizzes

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

1. What are the rules and guidelines set by authorities called?

   Option: Laws
   Option: Suggestions
   Option: Preferences
   Option: Technology

2. What is the income generated by a company called?

   Option: Dementia
   Option: Proteins
   Option: Revenue
   Option: Ageing

3. Who conducts scientific investigations to advance knowledge?

   Option: Health

Option: Hailstones
Option: Damage
Option: Researchers

4. What medical procedure creates images of the body?

   Option: Predict
   Option: Casualties
   Option: Unique
   Option: Scans

5. Which term refers to one's liking or favoring of something?

   Option: Forecast
   Option: Artificial intelligence
   Option: Suggestions
   Option: Preference

6. What is a large rocky body that orbits the sun known as?

   Option: Technology
   Option: Asteroid
   Option: Harmlessly
   Option: Detection

7. What action is taken to move people out of a dangerous area?

   Option: Fragment
   Option: Orbit
   Option: Evacuate
   Option: Negotiations

8. What motivates or encourages someone to do something?

   Option: Damage
   Option: Incentive
   Option: Uniqueness
   Option: Inspiration

9. Which term refers to the overall well-being of a person?

   Option: Preferences
   Option: Technology
   Option: Health
   Option: Artificial intelligence

10. What is the process of discovering or identifying something?

   Option: Detection
   Option: Harmlessly

Option: Regulations

Option: Unique

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

11. The tsunami caused extensive _____ to the coastal areas.

12. Meteorologists use advanced technology to predict the weather _____ .

13. The diplomats are engaging in peace _____ to resolve the conflict.

14. The war resulted in a high number of _____ among both soldiers and civilians.

15. Watching the sunrise over the mountains filled him with a sense of _____ and awe.

16. The government is working on establishing a new legal _____ for environmental

protection.

17. Many industries are exploring the potential of _____ to streamline processes and

enhance productivity.

18. Each snowflake is _____ in its shape and structure.

19. As individuals age the risk of developing _____ increases.

20. A balanced diet should include sources of essential _____ for overall health.

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

21. The process of growing old and the changes associated with it.
22. To predict or estimate a future event or trend.
23. Being the only one of its kind; unlike anything else.
24. Frozen raindrops that fall as pellets of ice during a thunderstorm.
25. To make an educated guess or projection about a future occurrence.

| 26. The application of scientific knowledge for practical purposes especially in industry. |
| 27. A small piece or part that has broken off from something larger. |
| 28. The path followed by a celestial body around a star planet or moon. |
| 29. Ideas or recommendations offered for consideration or action. |
| 30. To remove people from a dangerous or hazardous place. |

Answer

Multiple Choice: 1. Regulations 2. Revenue 3. Researchers 4. Scans 5. Preference 6. Asteroid 7. Evacuate 8. Incentive 9. Health 10. Detection

Gap-Fill: 11. damage 12. forecast 13. negotiations 14. casualties 15. inspiration 16. framework 17. artificial intelligence 18. unique 19. dementia 20. proteins

Matching sentence: 1. Ageing 2. Forecast 3. Unique 4. Hailstones 5. Predict 6. Technology 7. Fragment 8. Orbit 9. Suggestions 10. Evacuate

CATEGORY

1. Sci/Tech - LEVEL2

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