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# Hurricane Helene's Impact on Semiconductor Production

## Description

One big storm, Hurricane Helene, hit the US. It may mess up the tech industry. Helene hit a quartz mining town in North Carolina. This town gives special quartz for making chips used in phones and data centres worldwide.

The storm hit the town hard. More than 200 people died. Many folks lost homes and power. Even the quartz mines in the mountains were hit by floods.

The quartz from Spruce Pine helps make important chip parts called quartz crucibles. These containers can handle super hot temperatures needed to melt silicon for chips. The storm closed the mining companies but they hope to start up again soon.

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## Vocabulary List:

1. **Hurricane** /'hɜːrɪkeɪn/ (noun): A large storm characterized by strong winds and heavy rain typically forming over tropical waters.
2. **Quartz** /kwɔːrts/ (noun): A hard crystalline mineral composed of silicon and oxygen commonly used in electronics.
3. **Crucibles** /'kruːsɪbəlz/ (noun): Containers used for melting and testing materials at high temperatures.
4. **Silicon** /'sɪlɪkən/ (noun): A chemical element widely used in semiconductors and electronics.
5. **Floods** /flʌdz/ (noun): Overflow of water onto land that is normally dry often resulting from heavy rainfall.
6. **Mining** /'maɪnɪŋ/ (noun): The process of extracting valuable minerals or other geological materials from the earth.

## Comprehension Questions

### Multiple Choice

1. Where did Hurricane Helene hit?

Option: Florida  
Option: North Carolina  
Option: California  
Option: Texas



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2. What industry may be affected by Hurricane Helene?
- Option: Agriculture
  - Option: Tech
  - Option: Fashion
  - Option: Automotive
3. What special material is mined in the town hit by the hurricane?
- Option: Diamonds
  - Option: Gold
  - Option: Quartz
  - Option: Silver
4. What are the chip parts called that are made using the quartz from Spruce Pine?
- Option: Silicon Wafers
  - Option: Quartz Crucibles
  - Option: Aluminum Casings
  - Option: Graphite Heat Sinks
5. How many people died in the town hit by the hurricane?
- Option: 50
  - Option: 100
  - Option: 150
  - Option: 200
6. What element is melted to make chips in the quartz crucibles?
- Option: Aluminum
  - Option: Copper
  - Option: Silicon
  - Option: Gold

### **True-False**

7. Hurricane Helene hit a quartz mining town in Florida.
8. The quartz from Spruce Pine is used to make computer chips.
9. The storm caused flooding in the quartz mines in the mountains.



10. The mining companies closed due to the storm.
11. Quartz crucibles can handle high temperatures for melting gold.
12. The mining companies hope to resume operations soon.

### Gap-Fill

13. Hurricane Helene hit a quartz mining town in \_\_\_\_\_.
14. The quartz from Spruce Pine helps make chip parts called quartz \_\_\_\_\_.
15. More than \_\_\_\_\_ people died in the town hit by the hurricane.
16. The quartz mines in the mountains were hit by \_\_\_\_\_.
17. The storm made the mining companies \_\_\_\_\_ their operations.
18. The mining companies are hoping to start up \_\_\_\_\_ soon.

### Answer

**Multiple Choice:** 1. North Carolina 2. Tech 3. Quartz 4. Quartz Crucibles 5. 200 6. Silicon

**True-False:** 7. False 8. True 9. True 10. True 11. False 12. True

**Gap-Fill:** 13. North Carolina 14. Crucibles 15. 200 16. floods 17. close 18. again

## Vocabulary quizzes

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

1. Which type of crime involves the use of computers or the internet?  
Option: A. Cybercrime  
Option: B. Homicide  
Option: C. Robbery  
Option: D. Arson
2. What is a sudden and unexpected situation that requires immediate action?  
Option: A. Emergency



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- Option: B. Routine  
Option: C. Normalcy  
Option: D. Predictable
3. Which structure is designed to help plants grow by capturing sunlight and trapping heat?  
Option: A. Warehouse  
Option: B. Greenhouse  
Option: C. Stable  
Option: D. Silo
4. What is a severe tropical storm with strong winds and heavy rain?  
Option: A. Typhoon  
Option: B. Hurricane  
Option: C. Tornado  
Option: D. Blizzard
5. What are natural fuels formed from the remains of living organisms?  
Option: A. Solar Energy  
Option: B. Nuclear Energy  
Option: C. Fossil Fuels  
Option: D. Wind Power
6. A set of connected things or parts forming a complex whole.  
Option: A. Isolation  
Option: B. System  
Option: C. Fragment  
Option: D. Disarray
7. What is another term for dampness or water content in the air or soil?  
Option: A. Aridity  
Option: B. Humidity  
Option: C. Searing  
Option: D. Barrenness
8. Which mineral is often used in electronics and watches due to its piezoelectric properties?  
Option: A. Quartz  
Option: B. Diamond  
Option: C. Emerald  
Option: D. Topaz
9. What activity involves extracting valuable minerals or other geological materials from the earth?  
Option: A. Farming  
Option: B. Mining
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Option: C. Construction

Option: D. Fishing

10. The ability or permission to enter or obtain something is known as:

Option: A. Inhibition

Option: B. Access

Option: C. Prohibition

Option: D. Limitation

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

11. \_\_\_\_\_ is gained through involvement in events or activities.

12. Natural \_\_\_\_\_ such as earthquakes and tsunamis can cause widespread damage.

13. The process of setting up or putting something in place is called \_\_\_\_\_.

14. In situations of \_\_\_\_\_ people's behavior can vary greatly.

15. Safety measures can help to \_\_\_\_\_ accidents in the workplace.

16. The court issued a \_\_\_\_\_ on the legality of the new law.

17. There are certain \_\_\_\_\_ in place to regulate access to sensitive information.

18. Some online services offer \_\_\_\_\_ recommendations based on your browsing history.

19. The environmental \_\_\_\_\_ fought for stricter regulations on carbon emissions.

20. \_\_\_\_\_ is a commonly used material in the production of semiconductors.

21. Some individuals have \_\_\_\_\_ data stored on their devices that must be protected.

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

22. Engaging in illegal activities or behavior that is punishable by law.
23. A person's education experience and previous actions or history.
24. An event occurrence or situation that is noteworthy or concerning.



25. Providing goods or services to fulfill a demand or need.
26. An unexpected situation requiring immediate action or attention.
27. The potential effects consequences or outcomes of a certain action or event.
28. The presence of water or dampness in the air or on surfaces.
29. A severe tropical storm with strong winds and heavy rainfall.
30. Vessels used for melting substances at high temperatures.
31. The right or ability to enter or use something.

## Answer

**Multiple Choice:** 1. A. Cybercrime 2. A. Emergency 3. B. Greenhouse 4. B. Hurricane 5. C. Fossil Fuels 6. B. System 7. B. Humidity 8. A. Quartz 9. B. Mining 10. B. Access

**Gap-Fill:** 11. Experience 12. Disasters 13. Installation 14. Extremes 15. Prevent 16. Ruling 17. Restrictions 18. Personalized 19. Campaigner 20. Silicon 21. Sensitive

**Matching sentence:** 1. Criminal 2. Background 3. Incident 4. Supply 5. Emergency 6. Implications 7. Moisture 8. Hurricane 9. Crucibles 10. Access

## CATEGORY

1. Sci/Tech - LEVEL1

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