

## Ancient 'Wheel of Ghosts' Redefines Astronomy Mystery

### **Description**

The ancient site called <u>Rujm el-Hiri</u>, which means 'Wheel of Ghosts,' is located on the <u>Golan Heights</u> plateau in southwest Syria. It is a fascinating monument that was once believed to be an astronomical observatory.

Some studies suggested that Rujm el-Hiri was built to observe stars. However, a new study shows this might not be true. Researchers from Tel Aviv University and Ben-Gurion University found that Rujm el-Hiri has moved over thousands of years. It no longer lines up with the stars as it used to.

The team used different methods to investigate the site. They studied the magnetic signs in the ground, looked at changes in the land, and used satellite images.

The research suggests that people started building Rujm el-Hiri as far back as 4500 BCE. The site has a central stone mound surrounded by circles of basalt stones. It covers about 150 meters. Researchers think it may have also served as a gathering space or fort.

This study helps us learn more about ancient sites and can help find similar structures in other places.

# **Vocabulary List:**

- 1. **Astronomical** / æs.trə'ng:.mɪ.kəl/ (adjective): Relating to astronomy or the observation of celestial bodies.
- 2. **Observatory** /əbˈzɜːr.və.tɔːr.i/ (noun): A building or place from which people can observe astronomical events.
- 3. **Research** /'ri:.s3:rtʃ/ (noun): The systematic investigation into and study of materials and sources to establish facts and reach new conclusions.
- 4. Investigate /in'vɛs.ti.geɪt/ (verb): To carry out research or study into a subject to discover facts or information.
- 5. **Magnitude** /'mæg.nɪ.tjuːd/ (noun): The size extent or importance of something often used to refer to celestial bodies.
- Structures /'strʌk.tʃərz/ (noun): The arrangement of and relations between the parts or elements of something complex.

# **Comprehension Questions**

#### **Multiple Choice**

1. Where is the ancient site Rujm el-Hiri located?



Option: a) Giza Plateau, Egypt Option: b) Golan Heights, Syria Option: c) Machu Picchu, Peru Option: d) Stonehenge, England

2. What was the original belief about Rujm el-Hiri?

Option: a) Fort

Option: b) Astronomical observatory

Option: c) Temple Option: d) Palace

3. According to the new study, why might Rujm el-Hiri no longer be used for observing stars?

Option: a) Movement over time Option: b) Decrease in visibility Option: c) Lack of interest

Option: d) Destruction of the site

4. What methods did the researchers use to investigate Rujm el-Hiri?

Option: a) Studying bird populations Option: b) Analyzing ancient texts

Option: c) Magnetic signs, changes in land, satellite images

Option: d) Interviewing local residents

5. When do researchers believe people started building Rujm el-Hiri?

Option: a) 2500 BCE Option: b) 1000 BCE Option: c) 4500 BCE Option: d) 200 CE

6. What is the approximate size of Rujm el-Hiri?

Option: a) 50 meters Option: b) 75 meters Option: c) 150 meters Option: d) 200 meters

#### **True-False**

7. Rujm el-Hiri is believed to have always lined up with the stars throughout its history.



8.	. The recent study	on Rujm el-Hiri was	conducted by	researchers fr	om Tel Aviv l	University and	d Ben-Gurion
U	niversity.						

- 9. Rujm el-Hiri is located in Egypt.
- 10. The site of Rujm el-Hiri has a central stone mound and circles of basalt stones.
- 11. The research on Rujm el-Hiri suggests it may have served as a marketplace.
- 12. The primary purpose of the recent study on Rujm el-Hiri was to verify its astronomical observatory function.

#### **Gap-Fill**

13. Rujm el-Hiri is located on the Golan Heights plateau in southwest
14. According to the research, people started building Rujm el-Hiri as far back as
BCE.
15. The site of Rujm el-Hiri is surrounded by circles of stones.
16. The recent study conducted on Rujm el-Hiri involved examining magnetic signs in the ground, changes
in the land, and images.
17. Researchers suggest that Rujm el-Hiri might have also served as a gathering space or
·
18. The size of Ruim el-Hiri is approximately meters

### **Answer**

Multiple Choice: 1. b) Golan Heights, Syria 2. b) Astronomical observatory 3. a) Movement over time

4. c) Magnetic signs, changes in land, satellite images 5. c) 4500 BCE 6. c) 150 meters

**True-False:** 7. False 8. True 9. False 10. True 11. False 12. False **Gap-Fill:** 13. Syria 14. 4500 15. basalt 16. satellite 17. fort 18. 150



# Vocabulary quizzes

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

1. What type of facility is used to observe celestial events?

Option: Hospital Option: Library Option: Observatory

Option: School

2. Which branch of physics deals with subatomic particles?

Option: Classical Option: Quantum

Option: Thermodynamics Option: Astrophysics

3. What is the treatment method that aims at healing or recovering from an injury? ESL-NEWS

Option: Surgery Option: Therapy Option: Medication Option: Exercise

4. Which method is used to test a hypothesis?

Option: Guessing Option: Reflection Option: Experiment Option: Assumption

5. Who conducts scientific investigations and studies?

Option: Teachers Option: Students Option: Researchers Option: Politicians

6. What is the mental action or process of acquiring knowledge and understanding through thought experience and the senses?

Option: Navigation **Option: Cognition** Option: Respiration Option: Digestion





7.	Vhat describes linking two or more things together?						
	Option: Isolation						
	Option: Distraction						
	Option: Connection						
	Option: Separation						
8.	What term refers to the options or potential outcomes of a situation?						
	Option: Limitations						
	Option: Impossibilities						
	Option: Possibilities						
	Option: Certainties						
9.	What is the final time or date before which something must be completed?						
	Option: Beginning						
	Option: Middle						
	Option: Deadline						
	Option: End						
1(	). How does one typically feel when under a lot of pressure or worry?						
	Option: Relaxed						
	Option: Content						
	Option: Stressed						
	O. How does one typically feel when under a lot of pressure or worry?  Option: Relaxed  Option: Content  Option: Stressed  Option: Happy						
G	ap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )						
	ap 1 m (1 m m the blanks men the correct noral nom the vocabalary not)						
Ι.	L. After the surgery the patient needed time to						
10	2. A heart can save a person's life.						
	can save a person's me.						
13	3. Clear is essential for problem-solving.						
14	1. The new smartphone features a revolutionary Al-powered						
15	5 are heart muscle cells responsible for contraction.						
16	5. Buying in bulk is usually than buying individually.						
Ι,	17. Earthquakes are measured on the Richter scale in terms of						



3. The radio picked up signals from far away stations.						
19. Fiber is essential for a healthy digestive system and regular						
20. Exploring new paths opens up endless for growth.						
Matching Sentences ( Match each definition to the correct word from the vocabulary list. )						
21. Studying stars and galaxies falls under the field of astronomy.						
22. Architects design buildings bridges and other structures.						
23. The process of recovery from an illness or injury is crucial for healing.						
24. Chemical reactions occur due to molecular interactions.						
25. Competing in swimming cycling and running is part of a triathlon event.						
26. The Stroop test assesses the ability to focus attention and cognitive flexibility.						
27. Excessive concern or anxiety about a situation may lead to worry.						
28. The state of things as they exist is considered reality.						
29. The study of forces and motion is a part of mechanics in physics.						
30. A smartphone is an example of a handheld electronic device.						

### **Answer**

**Multiple Choice:** 1. Observatory 2. Quantum 3. Therapy 4. Experiment 5. Researchers 6. Cognition 7. Connection 8. Possibilities 9. Deadline 10. Stressed

**Gap-Fill:** 11. recover 12. transplant 13. thinking 14. device 15. Cardiomyocytes 16. cheaper 17. magnitudes 18. receiver 19. bowels 20. possibilities

**Matching sentence:** 1. Astronomical 2. Structures 3. Healing 4. Interactions 5. Triathlon 6. Stroop test 7. Worry 8. Reality 9. Mechanics 10. Device

### **CATEGORY**

1. Health - LEVEL1

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