

Student Worksheet: Listening to the Universe

Name: _____ Date: _____

Part 1: Understanding the Text

Read the paragraph your teacher gave you, then answer the questions below.

1. What kind of waves can our eyes see when we look at the night sky?
2. What kind of waves do stars, planets, and galaxies also send out that our eyes cannot see?
3. Who can detect these invisible waves?
 - a. Our eyes
 - b. The VLA
 - c. A flashlight
4. Name one thing scientists can learn from radio waves:
5. Why are radio waves important for understanding the universe?

Part 2: Vocabulary Match

Draw a line connecting each word to its meaning.

1. Radio waves ——— A. A giant telescope that listens to space
2. VLA ————— B. Light we cannot see with our eyes
3. Black holes ——— C. Places in space where gravity is extremely strong

Part 3: Creative Thinking

If radio waves could tell a story from space, what kind of story do you imagine they would tell? Write 2–3 sentences.

Short Quiz

Multiple Choice (Circle the correct answer)

1. Radio waves are:
 - a. A kind of sound
 - b. A type of light we can see
 - c. A type of light we cannot see
2. Scientists use radio waves to study:
 - a. How to build rockets
 - b. How stars are born
 - c. How plants grow
3. The leftover signals from the early universe come from:
 - a. The Big Bang
 - b. The Sun
 - c. The Moon

True or False

___ The VLA can detect radio waves that our eyes cannot see.

___ Radio waves tell us nothing about the universe.

Short Answer

Name one thing scientists study using radio waves: