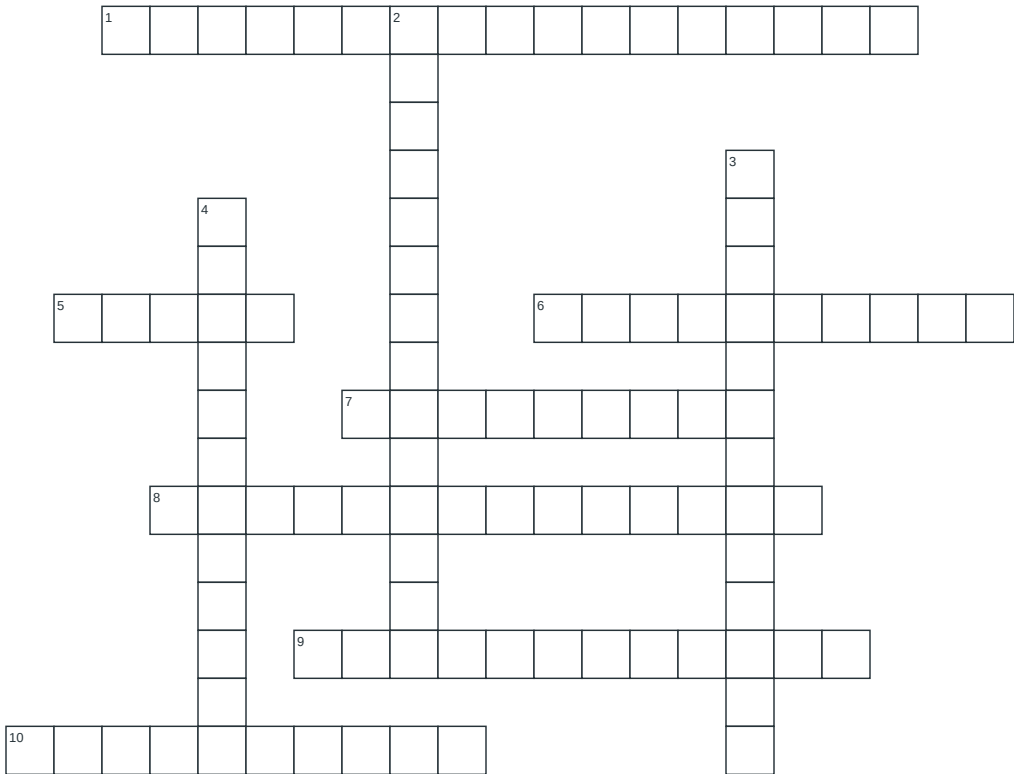


Space Observation and Exploration Crossword

Easy | 10 clues | Student Worksheet

Name: _____ Date: _____

Directions: Use the clues to complete the grid. Omit spaces, punctuation, and hyphens.



ACROSS

- 1. Ability to distinguish objects close together in apparent angle
- 5. Robotic vehicle designed to move across a planetary surface.
- 6. Electromagnetic waves are detected by a radio telescope
- 7. Instrument that collects electromagnetic radiation from distant objects.
- 8. Area that gathers incoming light for an optical telescope.

ACROSS (continued)

- 9. Feature at a particular wavelength that can reveal an element or motion.
- 10. An uncrewed spacecraft that collects information

DOWN

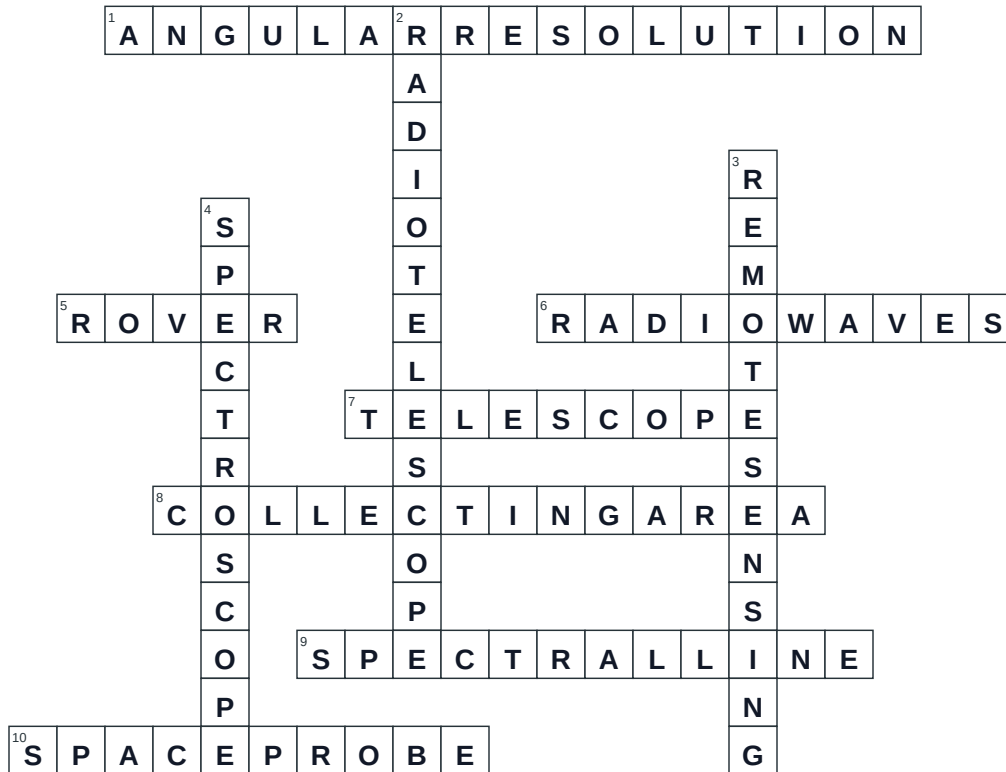
- 2. Instrument that detects radio waves from astronomical objects.
- 3. Collecting information about an object without direct contact
- 4. Instrument that separates light into its component wavelengths.

Space Observation and Exploration Crossword

Easy | 10 clues | Teacher Answer Key

TEACHER ANSWER KEY

Completed grid and numbered answers. Spaces and punctuation are omitted in the grid.



ACROSS

1. Angular Resolution
5. Rover
6. Radio Waves
7. Telescope
8. Collecting area
9. Spectral line

ACROSS (continued)

10. Space Probe

DOWN

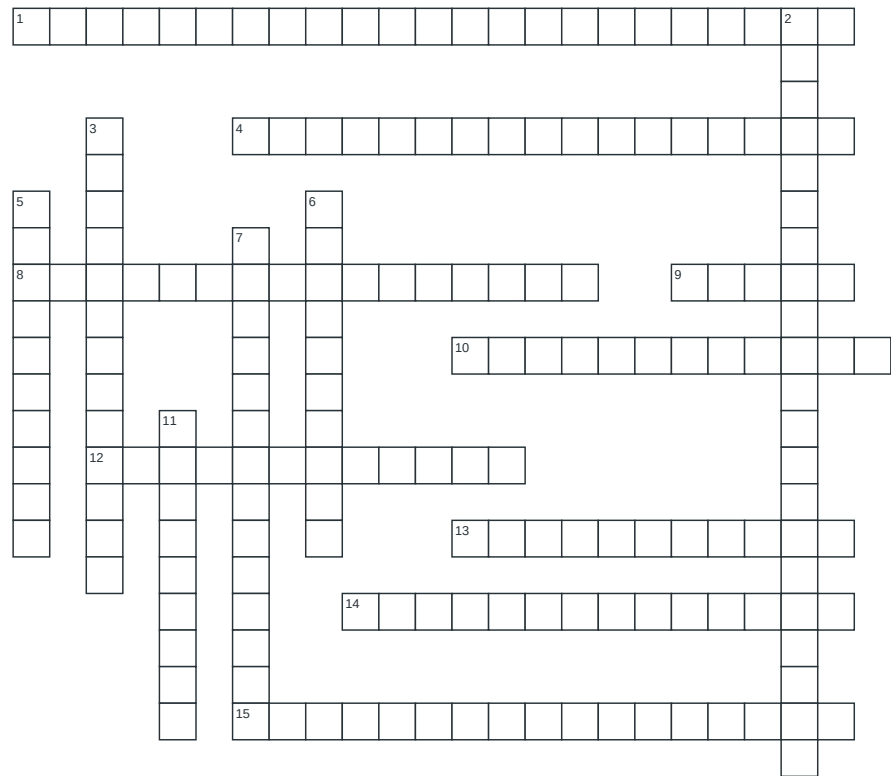
2. Radio telescope
3. Remote Sensing
4. Spectroscope

Space Observation and Exploration Crossword

Medium | 15 clues | Student Worksheet

Name: _____ Date: _____

Directions: Use the clues to complete the grid. Omit spaces, punctuation, and hyphens.



ACROSS

- 1. Time required for a signal to travel between Earth and a spacecraft.
- 4. Electromagnetic radiation with wavelengths longer than visible light.
- 8. Instrument-produced feature that can be mistaken for a real observation.
- 9. Robotic vehicle designed to move across a planetary surface.
- 10. Feature at a particular wavelength that can reveal an element or motion.
- 12. Instrument that separates light into its component wavelengths.
- 13. Comparison with known inputs to interpret an instrument’s readings.
- 14. Instrument that detects radio waves from astronomical objects.

ACROSS (continued)

- 15. Ability to distinguish objects close together in apparent angle

DOWN

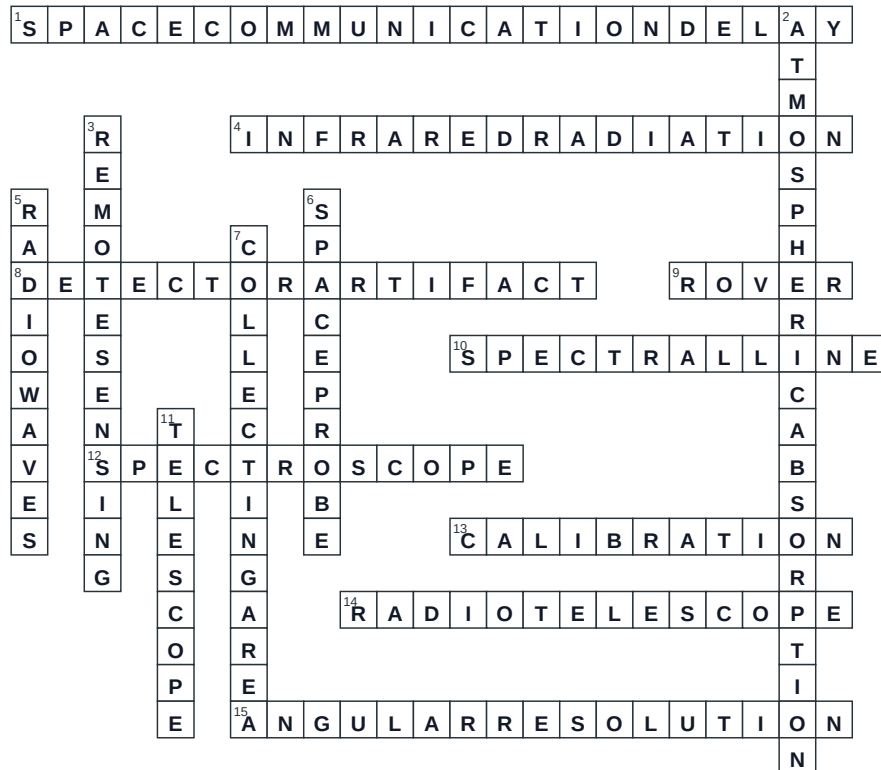
- 2. Removal of some wavelengths of radiation as they pass through an atmosphere.
- 3. Collecting information about an object without direct contact
- 5. Electromagnetic waves are detected by a radio telescope
- 6. An uncrewed spacecraft that collects information
- 7. Area that gathers incoming light for an optical telescope.
- 11. Instrument that collects electromagnetic radiation from distant objects.

Space Observation and Exploration Crossword

Medium | 15 clues | Teacher Answer Key

TEACHER ANSWER KEY

Completed grid and numbered answers. Spaces and punctuation are omitted in the grid.



ACROSS

1. Space communication delay
4. Infrared radiation
8. Detector artifact
9. Rover
10. Spectral line
12. Spectroscope
13. Calibration
14. Radio telescope

ACROSS (continued)

15. Angular Resolution

DOWN

2. Atmospheric absorption
3. Remote Sensing
5. Radio Waves
6. Space Probe
7. Collecting area
11. Telescope

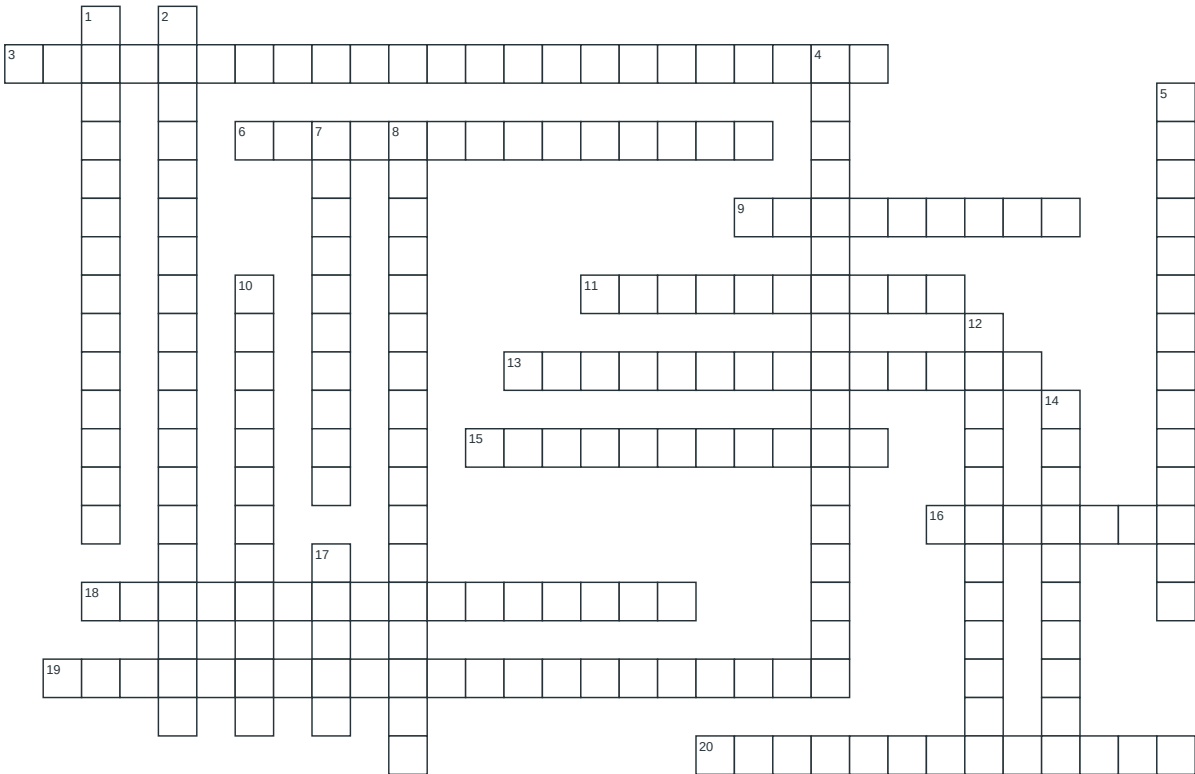
Space Observation and Exploration Crossword

Hard | 20 clues | Student Worksheet

Name: _____

Date: _____

Directions: Use the clues to complete the grid. Omit spaces, punctuation, and hyphens.



ACROSS

- 3. Time required for a signal to travel between Earth and a spacecraft.
- 6. Team and facility that plan and monitor spacecraft operations.
- 9. Instrument that collects electromagnetic radiation from distant objects.
- 11. Vehicle designed to travel or operate in space.
- 13. Instrument that detects radio waves from astronomical objects.
- 15. Comparison with known inputs to interpret an instrument’s readings.
- 16. Spacecraft that travels around a planet or other celestial body.
- 18. Instrument-produced feature that can be mistaken for a real observation.
- 19. Removal of some wavelengths of radiation as they pass through an atmosphere.
- 20. Collecting information about an object without direct contact

DOWN

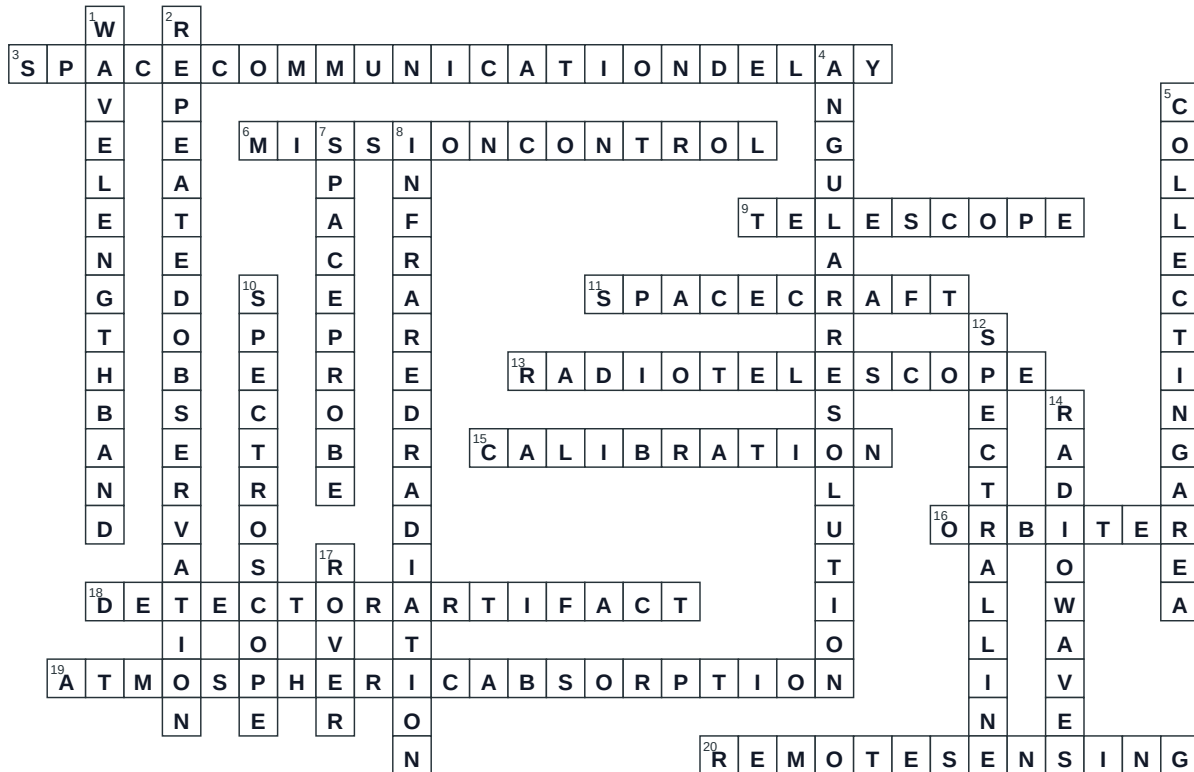
- 1. Range of electromagnetic wavelengths measured by an instrument.
- 2. Additional measurement used to test whether a result is consistent.
- 4. Ability to distinguish objects close together in apparent angle
- 5. Area that gathers incoming light for an optical telescope.
- 7. An uncrewed spacecraft that collects information
- 8. Electromagnetic radiation with wavelengths longer than visible light.
- 10. Instrument that separates light into its component wavelengths.
- 12. Feature at a particular wavelength that can reveal an element or motion.
- 14. Electromagnetic waves are detected by a radio telescope
- 17. Robotic vehicle designed to move across a planetary surface.

Space Observation and Exploration Crossword

Hard | 20 clues | Teacher Answer Key

TEACHER ANSWER KEY

Completed grid and numbered answers. Spaces and punctuation are omitted in the grid.



ACROSS

3. Space communication delay
6. Mission control
9. Telescope
11. Spacecraft
13. Radio telescope
15. Calibration
16. Orbiter
18. Detector artifact
19. Atmospheric absorption
20. Remote Sensing

DOWN

1. Wavelength band
2. Repeated observation
4. Angular Resolution
5. Collecting area
7. Space Probe
8. Infrared radiation
10. Spectroscope
12. Spectral line
14. Radio Waves
17. Rover