

Name: Answer Key

Date: \_\_\_\_\_

## TELESCOPES NOTES



### TELESCOPES

- Telescopes are one of humankind's most important inventions! It was able to give us a new perspective on the universe.
- The telescope allows us to look at and observe things that are very far away!
- Telescopes are the instruments we use to explore and study space.
- Telescopes allow us to see stars, planets, meteors, and even galaxies in space!

### HISTORY OF THE TELESCOPE

- People used to study the sky with their eyes only! they could not see very far at all!
- People became curious about what was in the sky.
- No one knows exactly who invented the telescope!
- In 1609, a brilliant man named Galileo Galilei became the first person to ever look into the sky using a telescope.
- He was able to see craters on the moon, and the moons of Jupiter.
- These are not very far away from Earth, but this was still farther than humans had ever seen before!

### TELESCOPES NOW

- Telescopes have been evolving since Galileo's time!
- Earth Telescopes allow us to see into space and get a closer look at stars, planets, and many other things in space.
- Space Telescopes are telescopes that are sent into space that send us clear pictures of things really far away like galaxies. It can see farther than telescopes on Earth.



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# TELESCOPES NOTES



## HUBBLE SPACE TELESCOPE

- The Hubble Space Telescope is a giant telescope that is in space!
- It orbits the Earth!
  - It is about 340 miles about Earth and travels around Earth every 90 minutes! That means it moves about 17,000 miles per hour!
- It was sent into space by Nasa in 1990!
- It can take clear pictures of space from very far away!
- We now have pictures of stars, planets, galaxies, among many other wonders of space due to the Hubble Telescope.

## MODERN SPACECRAFT

- Spacecraft let us explore beyond Earth!
- Probes visit planets and moons to collect data.
  - Examples:
    - Mars Rover
    - Voyager
- Satellites orbit Earth and watch the stars, sun, and planets.