

Name _____

Word Count: 280

Exoplanets

Recently, scientists discovered a giant exoplanet (a planet 8
outside our solar system) orbiting around a distant star. 17
This huge planet is eleven times the size of Jupiter, but it 29
is still much smaller than its parent star. How do scientists 40
find these distant objects? 44

Exoplanets are often difficult to spot because they are 53
much less bright than their parent stars. In order to see an 65
exoplanet, astronomers need to block the light of the parent 75
star. This means that usually we can only see exoplanets 85
that are very large, very hot, and orbiting far away from 96
their parent stars. These types of exoplanets are often 105
“gas giants” that are much larger than Jupiter. 113

However, it’s also possible to discover exoplanets by 121
seeing the effect they have on the objects around them. 131
For example, exoplanets can cause small changes in the 140
speed at which a star moves toward or away from the Earth. 152
Scientists can find exoplanets by measuring these changes. 160

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Scientists can also sometimes spot exoplanets as they pass 169
 in front of their parent stars, causing a slight dimming 179
 of the star’s light. Because exoplanets are so difficult to 189
 see directly, these clues make finding them much easier. 198

By searching in these ways, scientists have already 206
 discovered more than one thousand exoplanets. As 213
 technology improves, they expect to discover many more. 221

A few of the exoplanets we know about are similar to 232
 Earth in some ways. For example, some have clouds with 242
 water in their atmospheres. Others are Earth-sized and 250
 orbit their stars at a distance similar to Earth’s distance 260
 from the Sun. Could any of these planets support life 270
 as we know it? Scientists don’t yet have the answer. 280

Number of Errors

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Accuracy (%):

Reading Rate (Words Per Minute):

