

Name: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_

**Other Planetary Systems Review**  
Astronomy

1. Exoplanets –
  
2. Fomalhaut –
  
3. Gravitational Lensing –

Review

1. What is the purpose of astronomers studying other planetary systems?
  
2. What type of research do astronomers use when they study other planetary systems?
  
3. The most present evidence that we have comes from what? Explain.
  
4. How do we know about exoplanets if we can't see them to detect them? Explain.
  
5. What does Doppler signals show astronomers? Explain.
  
6. Why would Doppler signals be necessary if we have space crafts like the Hubble? Explain.
  
7. Give an example of a star and its system that were detected by Doppler.
  
8. What are the dimensions of Fomalhaut? Describe in detail.
  
9. Doppler is great for detecting what types of exoplanets?

10. What approach is used for exoplanets that can't be detected by Doppler?
11. Einstein's approach to studying exoplanets is based off which scientific theory? What does this theory state?
12. How does Einstein's approach show astronomers exoplanets? Explain.
13. How often do astronomers check for exoplanets and what approach do they use?
14. Have astronomers found a system just like ours that we know of?
15. Describe the system of 55 Cancri.
16. How is 55 Cancri similar to our system? What do we have in common?
17. What is it about 55 Cancri that caught the attention of astronomers?
18. What parts of 55 Cancri's system contradicts the solar nebula theory? Explain each.
19. What are the main justifications for why 55 Cancri's system is different from ours if the solar nebula theory is the accurate depiction? Explain.