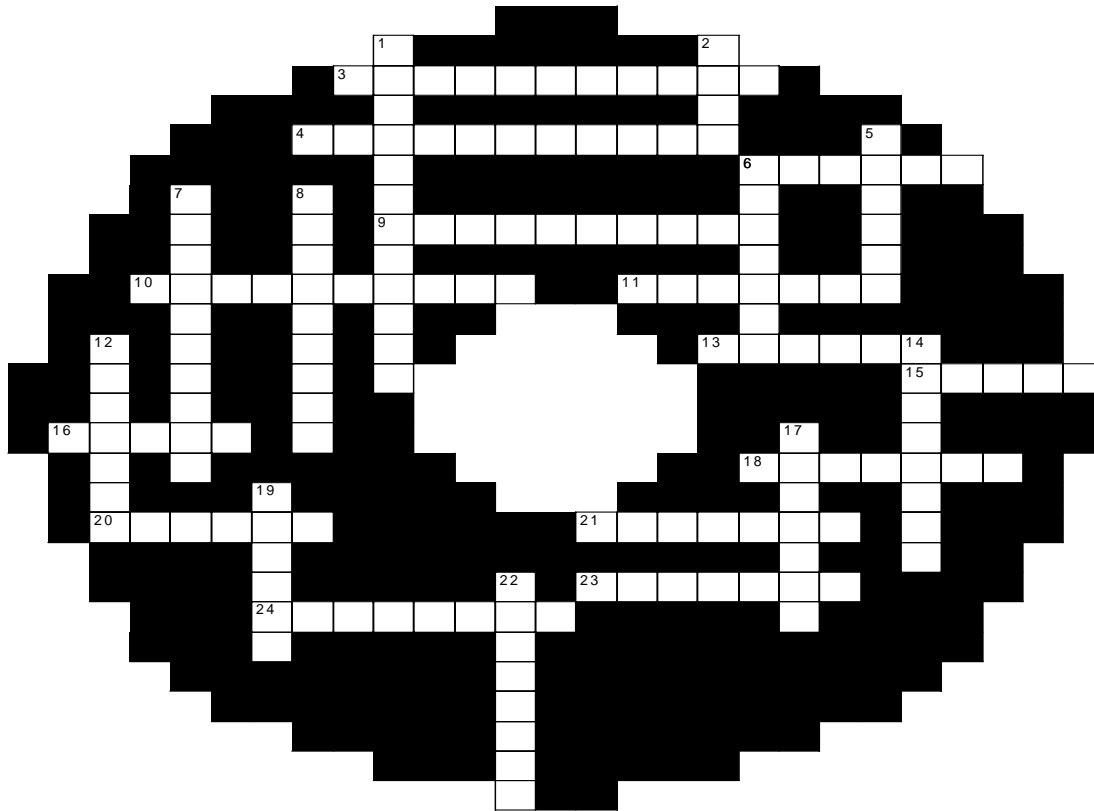


# 11 Gravity and the Solar System

CROSSWORD

Name \_\_\_\_\_

AP/Inquiry Physics



**Both the puzzle and the blanks below must be filled out; the blanks will be graded; spelling counts!**

**Across**

- \_\_\_\_\_ 3. Newton said the sun's gravity acted as this kind of force
- \_\_\_\_\_ 4. Ancient scientist who proposed a sun-centered system
- \_\_\_\_\_ 6. Eudoxus' country
- \_\_\_\_\_ 9. Kepler showed orbits were this shape
- \_\_\_\_\_ 10. Means "earth-centered"
- \_\_\_\_\_ 11. This country knighted Newton
- \_\_\_\_\_ 13. Copernicus' country
- \_\_\_\_\_ 15. Galileo's country
- \_\_\_\_\_ 16. Each planet's orbit has the sun at this point
- \_\_\_\_\_ 18. Brahe's country
- \_\_\_\_\_ 20. Kepler showed that when farther from the sun, planets move...
- \_\_\_\_\_ 21. His version of the geocentric model lasted over 1,000 years
- \_\_\_\_\_ 23. Newton explained that gravity prevents planets from flying off at a...
- \_\_\_\_\_ 24. He explained gravity as a warp in space-time

**Down**

- \_\_\_\_\_ 1. Means "sun-centered"
- \_\_\_\_\_ 2. Newton showed that gravity is proportional to the product of each object's...
- \_\_\_\_\_ 5. Kepler showed a planet's orbital radius is proportional to its orbital...
- \_\_\_\_\_ 6. His "Dialogue Concerning the Great Two World Systems" led to his arrest
- \_\_\_\_\_ 7. He delayed publishing "On the Revolutions of Heavenly Bodies" until his death
- \_\_\_\_\_ 8. He was the first person to calculate the density of our planet
- \_\_\_\_\_ 12. He was the originator of the earth-centered model with crystal spheres
- \_\_\_\_\_ 14. Gravity is inversely proportional to the square of...
- \_\_\_\_\_ 17. Kepler's country
- \_\_\_\_\_ 19. Published "The New Astronomy" in 1609
- \_\_\_\_\_ 22. Copernicus thought orbits had this shape