

1. Name the four (three) major forces and briefly describe them.
2. Describe what is meant by the Grand Unified Theory.
3. Identify and apply Kepler's three laws of planetary motion.
4. Describe the history of our understanding of planetary motion and gravity.
5. State and solve problems with Newton's Universal Law of Gravitation.
6. Find the weight of object's under the Earth's surface.
7. Explain why the Earth is not a perfect sphere.
8. Briefly describe Einstein's General Theory of Relativity.
- Honors only 9. Use Kepler's third law in math problems.
10. Describe how to "see" black holes.
11. Compare and contrast centripetal and centrifugal force.
- Honors only 12. Explain principle of superposition.
13. State Hooke's law.
14. Solve problems with centripetal force and Hooke's law.