

# **Einstein's Gravity**

## **Suggested Topics for Further Research**

### **Sun's Gravity Bends Starlight Einstein's Theory Triumphs**

1. Research and report on the life of Albert Einstein.
2. Einstein referred to curved space or dimples in space time.  
Research and report on curved space as a model for gravity.
3. Einstein's Theory of Special Relativity is different from his Theory of General Relativity.  
Research and report on Special Relativity (length contraction and time dilation)
4. "Sir Frank explained in detail the apparatus"  
Research and report on how the experiment was performed.
5. Einstein's theory explains other astronomical observations (such as black holes).  
Research and report on this explanation.
6. Albert Einstein did research other than his well known theories of relativity.  
Research and report on one of these topics.
7. Newton's Law of Gravitation is based on the masses of the bodies involved.  
Research and report on how he explains the bending of a massless light beam.  
(More difficult to avoid postings in forums – suggested as an extension or for an advanced group)
8. A solar eclipse was essential to the verification of Einstein's Theory of General Relativity.  
Research and report on solar eclipses and their significance to the experiment.

### **Expanding or Contracting Einstein says Neither**

9. Einstein said that the universe was neither expanding nor contracting.  
Research and report on his cosmological constant.