

Space: Its Light, Its Shape.

Chapter 13: Four-Dimensional Space

Assignment: For Monday, February 28, 2005

- Read Chapter 13.
- Though everyone is responsible for reading all of the material and for working out all of the exercises, teams have been assigned specific material and exercises for which they are responsible in class presentations. You may want to come to class early to firm up and smooth out the exercises with your teammates.

Team 2: Explain how a three dimensional being can perform what seems like “magic” in Flatland.

Team 3: Explain how a four-dimensional being could theoretically perform what seems like “magic” in our three-dimensional world.

Team 4: Consider me a skeptic. Convince me that a four-dimensional being could link two solid rings by using the fourth dimension. Is there a good analogy in three and two dimensions that can help us understand this?

Team 1: Explain how space-time can be visualized for Flatland.