

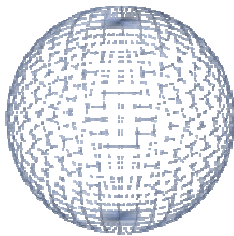
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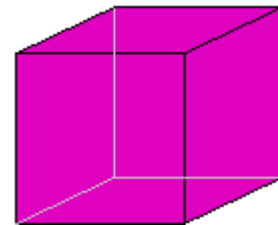
What if the planets were cubes?

By Daniela Kitanska

Hi, we are the planets. In reality, we are spherical!!!



Hi, we are the same planets. Imagine us keep our volume the same, but now we are cubes!!!



Planet	Color of the planet	Radius [km]	Volume [km ³]	Volume [km ³]	Side [km]	Scaled side [km] Scale: 1:400,000,000	Scaled side [cm]
Mercury		2440					
Venus		6050					
Earth		6375					
Mars		3395					
Jupiter		71400					
Saturn		60000					
Uranus		25400					
Neptune		24300					

Answer the following questions:

1. Which planet is the largest / smallest?
2. Which planet is most nearly the size of Earth?
3. The Great Wall of China is 6,700 km long. At the scale used in the activity, how long would the Great Wall of China be?



Models of the planets

4. What are the strengths of our models?
5. What are the weaknesses of our models?

6. How are our models different from the real solar system?

7. How are our models similar to the real solar system?

8. What surprised you most about this activity?

