Name:		Date:
Topic 6 Lesson 1 & Topic 7 Study Guide		
100 mm m m m m m m m m m m m m m m m m m	otes from Topic 6.1 & 7 dary in Topic 6.1 & 7 guide	
<ol> <li>star</li> <li>gravity</li> <li>axis</li> </ol>	Topic 6.1/7 Vocabulary 4. rotation 5. revolution 6. shadow	: 7. constellation
Apparent B and depen brightness	ference between apparent brightness is how brightness is how brightness on its distance from is how bright a star act stemperature.	t a star appears to be Earth. Actual
a. The Earth' b. The Earth'	ach of the following take? s revolution: 365 days/1 yes s rotation: 24 hours/1 day	

10. Why does gravity keep your desk on the ground instead of floating around the room?

Earth's gravity pulls all objects towards its center.

11. Why do we have day and night?

The Earth is constantly rotating, or spinning, on its axis.

Only half of the Earth is facing the sun at one time. The side that is facing the sun is experiencing day. The side that is facing away from the sun is experiencing night.

12. Why do we have time zones?

Only half of Earth is facing the sun. When your location rotates into that half, you experience a sunrise. This will be different for different places and will depend on when their locations rotate into the half of the Earth that is facing the sun.

13. What is the sequence of moon phases between a new moon and the next new moon?		
New Moon >waxing crescent> first quarter >waxing gibbous>		
full moon >waning gibbous last quarter >		
waning crescent > New Moon		
14. Do we see the same constellations all year long? Explain. No. The Earth revolves around the sun. The Earth		
passes different stars on its trip around the sun, which		
is why we see different constellations during different		
months.		
15. Around what time of the day is your shadow the shortest?		
16. Around what time of the day is your shadow the longest? <u>dawn, dusk</u>		
17. During which season is your shadow the shortest?winter		
18. During which season is your shadow the longest?		
<ol> <li>When shadows are longer, the sun is <u>high</u> in the sky. (low or high)</li> </ol>		
20. When shadows are shorter, the sun islow in the sky. (low or high)		
21. How does the revolution of the Earth around the sun affect the seasons? The Earth rotates on a tilted axis. When your hemisphere is tilted towards the sun,		
you experience more direct sunlight which results in longer days and warmer		
temperatures. When your hemisphere is tilted away from the sun, you experience		
less direct sunlight which results in shorter days and colder temperatures.		