Light and Space Practice Questions	
Give 2 reasons why light is not matter.	
Light is a form of energy, it has no mass nor volume	
List 5 properties of light.	
1) Light travels very fast	
2) Light carries energy	
3) White light is made up of different colours	
4) Light can be reflected Rabsorbed	
5) Light cannot bend around an object	
During a firework show, you see the explosion of a firework, then hear the explosion 2 seconds later. Ex	nlair
why you don't see and hear the firework at the same time.	1075
Light travels much fester than sound so the light from the firecusik a	ets
to our eyes before the sound gets to our ears.	
• Write the word being described by each of the following definitions:	
a. The spinning of a body on its own axis.	
b. Half of a sphere. The Earth has a northern and southern one of these. hemisphere	
c. The movement of one object around another.	
d. The path that one object takes as it moves around another.	
e. The imaginary line (from North to South) about which an object spins.	
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. What are the colours that make up white light? Write them in order.	
Red orange yellow green	
blue indigo violet 10	

		The Earth takes 24 hrs to rotate once on its own axis.
	a.	The Earth takes to rotate once on its own axis.
	b.	The Earth has seasons because its axis is <u>tilted</u> .
	c.	In summer, there is (more or less) daylight than in the winter.
	d.	The earth's axis is tilted at an angle of 23° .
	e.	When it's spring in the Southern hemisphere, it's in the Northern hemisphere.
	f.	If you were to look down at the direction of Earth's revolution from above, you would see that it revolves in a <u>Counter-clockwise</u> direction.
	g.	In December, the South pole tilts (toward or away) from the sun.
7. [_abel	North pole South pole Equator Northern hemisphere Southern hemisphere Southern hemisphere
3. 7	The in	mage on the right shows the location of Montreal on the Earth.
	a.	Is it daytime or nighttime in Montreal? Justify your answer. Nighttime because Montreal is turned away from the sun. Montreal polar night (6 months of night)
	b.	What season is it in Montreal? Justify your answer. Winter because the Northern hemisphere is tilted away from the Sun

6. Fill in the blanks in each of the following sentences:

9.	February normally has 28 days, but every 4 years we have a "leap year" where a 29 th day is added onto the calendar in February. The next one will be February 29 th , 2020. Explain why leap years exist.
	because it takes 365 and 14 days for one revolutions Instead of
	beginning a new year after 14 day, we combine these quarter days into one full day that we add to the calendar (February 29th) every four years
10.	Write the season(s) being described in each of the following definitions:
	a. One hemisphere is receiving sunlight directly.
	b. One hemisphere is receiving sunlight at an angle.
	c. Both hemispheres are receiving equal amounts of sunlight. Spring of full
	The diagrams below show a person positioned at a certain point on the Earth. In which diagram is he experiencing summer? Explain why.
	Diagram B
	sunlight - SUN - sunlight
	Diagram A, because the Northern hemisphere (where the person is Standing) is tilted toward the own.
12.	What is the difference between a solstice and an equinox? Explain your answer. A solstice occurs when one hemisphere receives sunlight at an angle. June and Dec 21 While the other hemisphere receives sunlight at an angle. June and Dec 21 An equinox occurs when both hemispheres receive the same amount of sunlight (March and Dopt 216+)

13. Use these pictures to help you draw how the moon appears on Earth at the different stages of its revolution around the Earth. Write the name of each moon phase as well.
Third quarter
3rd warring gibbours crescent
Sunlight Nacon Earth
Grescent 1st granter
14. How long does it take the moon to orbit the Earth? Approximately / month
The moon reflects sunfight. It's appearance and shape depend on its position as it orbits the Earth.
In a lunar eclipse, the Earth is between the sun and moon. In a solar eclipse, the moon is between the sun and the Earth
The moon's orbit is tilted, so they rarely all line up