



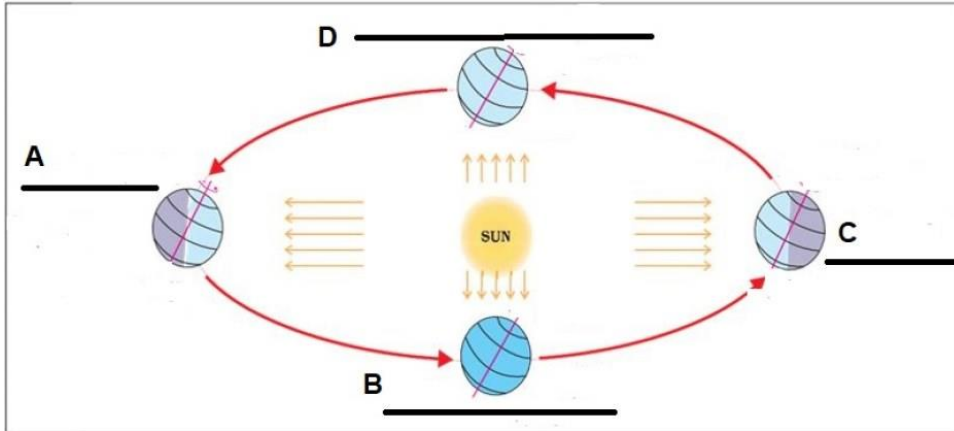
## INDIAN SCHOOL AL WADI AL KABIR

<b>Class: VI</b>	<b>Department: Social Science</b>	<b>Sub: Geography</b>
<b>Worksheet No: 6</b>	<b>Topic: Motions of the Earth</b>	<b>Year: 2023-24</b>

<b>I</b>	<b>Fill in the blanks :-</b>												
<b>1</b>	The earth rotates on its axis from _____ to _____ <b>West to East</b>												
<b>2</b>	The axis of the earth is inclined at an angle of _____ <b>66 ½ degrees.</b>												
<b>3</b>	The variation in the length of days and nights is due to the _____ on the earth's axis. <b>Inclination</b>												
<b>4</b>	The earth's orbit around the sun is _____ in shape. <b>Elliptical .</b>												
<b>II</b>	<b>Match the following: -</b>												
	<table><tr><td><b>Column A</b></td><td><b>Column B</b></td></tr><tr><td>1.Equinox</td><td>a. 25<sup>th</sup> December</td></tr><tr><td>2.Chritmas</td><td>b. 366 days</td></tr><tr><td>3.Leap Year</td><td>c. Winter</td></tr><tr><td>4.Shorter Day</td><td>d. Equal day and night</td></tr><tr><td></td><td>e. Summer</td></tr></table> <b>Answers: - 1.d, 2.a, 3.b, 4.c</b>	<b>Column A</b>	<b>Column B</b>	1.Equinox	a. 25 <sup>th</sup> December	2.Chritmas	b. 366 days	3.Leap Year	c. Winter	4.Shorter Day	d. Equal day and night		e. Summer
<b>Column A</b>	<b>Column B</b>												
1.Equinox	a. 25 <sup>th</sup> December												
2.Chritmas	b. 366 days												
3.Leap Year	c. Winter												
4.Shorter Day	d. Equal day and night												
	e. Summer												
<b>III</b>	<b>Answer in one or two sentences: -</b>												
<b>5</b>	What is the cause of day and night? <b>Day and night are caused by the rotation of the Earth around its own axis.</b>												
<b>6</b>	Why do the areas near the poles receive less sun rays? <b>It is because the rays of the sun are slanting on the poles.</b>												
<b>IV</b>	<b>Answer in brief: -</b>												
<b>7</b>	Why do the areas near the poles receive less sun rays? <b>It is because the rays of the sun are slanting on the poles.</b>												
<b>8</b>	What would happen if the earth did not rotate? <ul style="list-style-type: none"><li>• <b>In such a condition, the portion of the earth which is facing the sun would always experience day, and thus there would be continuous warmth in the region.</b></li><li>• <b>At the same time, the other half would always remain dark and be freezing cold all the time. These are extreme conditions which are not suitable for life.</b></li><li>• <b>Thus, we can say that if the earth did not rotate life would not have been possible.</b></li></ul>												
<b>9</b>	How does leap year occur? <ul style="list-style-type: none"><li>➤ <b>The earth takes 365¼ days one year to complete one revolution around the sun.</b></li><li>➤ <b>We consider a year as consisting of 365 days only and ignore six hours for our convenience.</b></li><li>➤ <b>Six hours saved every year are added to make one day 24 hours over a span of four years.</b></li><li>➤ <b>This surplus day is added to the month of February.</b></li><li>➤ <b>Thus every fourth year, February of 29 days instead of 28 days. Such a year with 366 days</b></li></ul>												

is called a leap year.

V Observe the diagram and answer the following questions: -



10 Identify the Earth position marked as 'A', 'B', 'C' & 'D'  
**Summer Solstice , Equinox (23<sup>rd</sup> September) , Winter Solstice & Equinox (21<sup>st</sup> March)**

11 Name the four seasons in a year.  
**Summer, Winter, Spring and Autumn.**

12 On which dates, do the sun ray's fall directly on the Equator? What is it called?  
**23<sup>rd</sup> September and 21<sup>st</sup> March. Equinox.**

13 Seasons are changing due to the \_\_\_\_\_ around the sun.  
**Revolution of the earth**

VI Draw the neat well labelled diagram of 'Inclination of the Earth's axis and orbital plane'

