Earth and Spa	ce		Worksheet 3A
ame:		Pate:	
	Stick the correct Sea Earth f	ason Label and description or each season in the No	n next to the correct position othern Hemisphere.
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Worksheet 3B

Name:				_ Da	ate:		
C	/	Label t Hemisphere	the positions in is in. Explain ho	Earth's orbit wi	th the corrections	t season that the acts you know ab	e Northern out each seaso
	winter colder	autumn tilted	spring towards	longer away from	shorter orbit	northern hemisphere	southern month

Season Labels 3A

The Northern Hemisphere is not tilted towards, or away from the Sun.

Earth will be moving into a position where the Northern Hemisphere will be tilted towards the

The days are beginning to become <u>longer</u> and the weather is getting <u>warmer</u>.

The Northern Hemisphere is tilted <u>towards</u> the Sun.

The days are the <u>longest</u> they will be all year and the weather is <u>warm</u>.

This season occurs during the months of <u>June</u>, <u>July and August</u>.

The Northern Hemisphere is not tilted towards, or away from the Sun.

Earth will be moving into a position where the Northern Hemisphere will be tilted away from the Sun

The days are beginning to become <u>shorter</u> and the weather is getting <u>colder</u>.

The Northern Hemisphere is tilted <u>away from</u> the Sun.

The days are the <u>shortest</u> they will be all year and the weather is <u>cold</u>.

This season occurs during the months of <u>December</u>, <u>January</u> and <u>February</u>.

Spring

Autumn

Summer

Winter

The Northern Hemisphere is not tilted towards, or away from the Sun.

Earth will be moving into a position where the Northern Hemisphere will be tilted towards the

The days are beginning to become <u>longer</u> and the weather is getting <u>warmer</u>.

The Northern Hemisphere is tilted $\underline{\text{towards}}$ the Sun.

The days are the <u>longest</u> they will be all year and the weather is <u>warm</u>.

This season occurs during the months of <u>June</u>, <u>July and August</u>.

The Northern Hemisphere is not tilted towards, or away from the Sun.

Earth will be moving into a position where the Northern Hemisphere will be tilted <u>away from</u> the Sun.

The days are beginning to become <u>shorter</u> and the weather is getting colder.

The Northern Hemisphere is tilted <u>away from</u> the Sun.

The days are the <u>shortest</u> they will be all year and the weather is <u>cold</u>.

This season occurs during the months of <u>December</u>, <u>January</u> and <u>February</u>.

Spring

Autumn

Summer

Winter

Spring

Autumn

The days are beginning to become <u>longer</u> and the weather is getting <u>warmer</u>.

Earth will be moving into a position where the Northern Hemisphere will be tilted <u>away</u> <u>from</u> the Sun.

The Northern Hemisphere is tilted <u>away</u> from the Sun.

This season occurs during the months of <u>June, July</u> <u>and August</u>.

The days are the <u>shortest</u> they will be all year and the weather is <u>cold</u>.

The days are beginning to become <u>shorter</u> and the weather is getting <u>colder</u>.

The Northern Hemisphere is not tilted towards, or away from the Sun.

Earth will be moving into a position where the Northern Hemisphere will be tilted <u>towards</u> the Sun.

This season occurs during the months of <u>December,</u>
<u>January</u> and <u>February</u>.

The Northern Hemisphere is tilted <u>towards</u> the Sun.

The days are the <u>longest</u> they will be all year and the weather is <u>warm</u>.

The Northern Hemisphere is not tilted towards, or away from the Sun.

Spring

Autumn

The days are beginning to become <u>longer</u> and the weather is getting <u>warmer</u>.

Earth will be moving into a position where the Northern Hemisphere will be tilted away from the Sun.

The Northern Hemisphere is tilted <u>away</u> from the Sun.

This season occurs during the months of <u>June</u>, <u>July</u> <u>and August</u>.

The days are the <u>shortest</u> they will be all year and the weather is <u>cold</u>.

The days are beginning to become <u>shorter</u> and the weather is getting <u>colder</u>.

The Northern Hemisphere is not tilted towards, or away from the Sun.

Earth will be moving into a position where the Northern Hemisphere will be tilted <u>towards</u> the Sun.

This season occurs during the months of <u>December,</u> <u>January</u> and <u>February</u>.

The Northern Hemisphere is tilted <u>towards</u> the Sun.

The days are the <u>longest</u> they will be all year and the weather is warm.

The Northern Hemisphere is not tilted towards, or away from the Sun.

is not tilted the Sun.

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Earth and Space Worksheet 3C

Name: Date: _ A graph to show the average monthly day length 16 15 Key 14 Duration (hours) 13 12 -11 10 KBY HU Month Copyright @ PlanBee Resources Ltd 2020 www.planbee.com

	Earth	and	Space
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Graph Paper 3A

Name:	Pate:

Statistics Cards 3A



Create a graph to show the average day length by month using the data below. Remember, your y axis will be time duration and should use hours and minutes.

Northern	Hemisphere
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Southern Hemisphere

London, UK	Hours of daylight	Pretoria, South Africa	Hours of daylight
January	8h 24m	January	13h 37m
February	10h 3m	February	13h
March	11h 56m	March	12h 17m
April	13h 58m	April	11h 31m
May	15h 43m	May	10h 54m
June	16h 41m	June	10h 35m
July	16h 14m	July	10h 43m
August	14h 39m	August	11h 16m
September	12h 42m	September	11h 59m
October	10h 45m	October	12h 44m
November	8h 55m	November	13h 25m
December	7h 56m	December	13h 47m



Create a graph to show the average day length by month using the data below. Remember, your y axis will be time duration and should use hours and minutes.

Northern Hemisphere

Southern Hemisphere

London, UK	Hours of daylight	Pretoria, South Africa	Hours of daylight
January	8h 24m	January	13h 37m
February	10h 3m	February	13h
March	11h 56m	March	12h 17m
April	13h 58m	April	11h 31m
May	15h 43m	May	10h 54m
June	16h 41m	June	10h 35m
July	16h 14m	July	10h 43m
August	14h 39m	August	11h 16m
September	12h 42m	September	11h 59m
October	10h 45m	October	12h 44m
November	8h 55m	November	13h 25m
December	7h 56m	December	13h 47m



Create a graph to show the average day length by month using the data below. Remember, your y axis will be time duration and should use hours and minutes.

Northern Hemisphere

Southern Hemisphere

London, UK	Hours of daylight	Pretoria, South Africa	Hours of daylight
January	8h 24m	January	13h 37m
February	10h 3m	February	13h
March	11h 56m	March	12h 17m
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May	15h 43m	May	10h 54m
June	16h 41m	June	10h 35m
July	16h 14m	July	10h 43m
August	14h 39m	August	11h 16m
September	12h 42m	September	11h 59m
October	10h 45m	October	12h 44m
November	8h 55m	November	13h 25m
December	7h 56m	December	13h 47m

Earth and Space Statistics Cards 3B



Create a graph to show the average day length by month using the data below. Remember, your y axis will be time duration and should use hours and minutes.

Northern H	lemisphere	Southern Hemisphere		Equa	Equator	
London, UK	Hours of daylight	Pretoria, South Africa	Hours of daylight	Quito, Equador	Hours of daylight	
January	8h 24m	January	13h 37m	January	12h 10m	
February	10h 3m	February	13h	February	12h 9m	
March	11h 56m	March	12h 17m	March	12h 9m	
April	13h 58m	April	11h 31m	April	12h 9m	
May	15h 43m	May	10h 54m	May	12h 9m	
June	16h 41m	June	10h 35m	June	12h 9m	
July	16h 14m	July	10h 43m	July	12h 9m	
August	14h 39m	August	11h 16m	August	12h 9m	
September	12h 42m	September	11h 59m	September	12h 9m	
October	10h 45m	October	12h 44m	October	12h 9m	
November	8h 55m	November	13h 25m	November	12h 10m	
December	7h 56m	December	13h 47m	December	12h 10m	



Create a graph to show the average day length by month using the data below. Remember, your y axis will be time duration and should use hours and minutes.

Northern H	lemisphere	Southern H	lemisphere	Equa	ator
London, UK	Hours of daylight	Pretoria, South Africa	Hours of daylight	Quito, Equador	Hours of daylight
January	8h 24m	January	13h 37m	January	12h 10m
February	10h 3m	February	13h	February	12h 9m
March	11h 56m	March	12h 17m	March	12h 9m
April	13h 58m	April	11h 31m	April	12h 9m
May	15h 43m	May	10h 54m	May	12h 9m
June	16h 41m	June	10h 35m	June	12h 9m
July	16h 14m	July	10h 43m	July	12h 9m
August	14h 39m	August	11h 16m	August	12h 9m
September	12h 42m	September	11h 59m	September	12h 9m
October	10h 45m	October	12h 44m	October	12h 9m
November	8h 55m	November	13h 25m	November	12h 10m
December	7h 56m	December	13h 47m	December	12h 10m

Question Cards 3A



What do you notice about the Northern Hemisphere's graph?



What do you notice about the Southern Hemisphere's graph?



What differences can you spot between the day length in the two locations?



Which months are summer for the UK?
How do you know?



Which months are winter for the UK? How do you know?



Which months are summer for South Africa?
How do you know?



Which months are winter for South Africa? How do you know?



Which of the two countries has the longest days?



Which of the two countries has the shortest days?



In which months do the two locations have a similar day length. Which seasons are they in?



Can you explain why the UK has longer days in June and South Africa has shorter days?



What is the difference between South Africa's longest day and the UK's longest day?

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Earth and Space Question Cards 3A



What do you notice about the Northern Hemisphere's graph?



What do you notice about the Southern Hemisphere's graph?



What differences can you spot between the day length in the three locations?



What do you notice about the Equator's graph?



Which months are winter for the UK? How do you know?



Which months are summer for the UK?
How do you know?



Which months are winter for South Africa?
How do you know?



Which of the three countries has the longest days?



Can you explain why the equator's graph looks like it does?



In which months do the three locations have a similar day length. Which seasons are they in?



Can you explain why the UK has longer days in June and South Africa has shorter days?



What is the difference between South Africa's longest day and the UK's longest day?

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Answers

Worksheet 3A

Name: _____

Date:



Stick the correct Season Label and description next to the correct position of Earth for each season in the Northern Hemisphere.

Summer

Spring

The Northern Hemisphere is tilted <u>towards</u> the Sun.

The days are the <u>longest</u> they will be all year and the weather is <u>warm</u>.

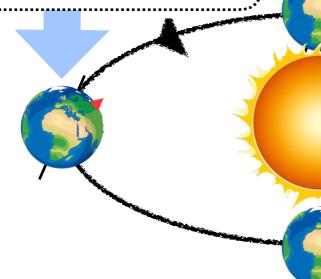
This season occurs during the months of <u>June</u>,

<u>July and August</u>.

The Northern Hemisphere is not tilted towards, or away from the Sun.

Earth will be moving into a position where the Northern Hemisphere will be tilted <u>towards</u> the

The days are beginning to become <u>longer</u> and the weather is getting warmer.





The Northern Hemisphere is not tilted towards, or away from the Sun.

Earth will be moving into a position where the Northern Hemisphere will be tilted <u>away from</u> the Sun.

The days are beginning to become <u>shorter</u> and the weather is getting <u>colder</u>.

The Northern Hemisphere is tilted <u>away from</u> the Sun.

Winter

The days are the <u>shortest</u> they will be all year and the weather is <u>cold</u>.

This season occurs during the months of <u>December</u>, <u>January</u> and <u>February</u>.

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