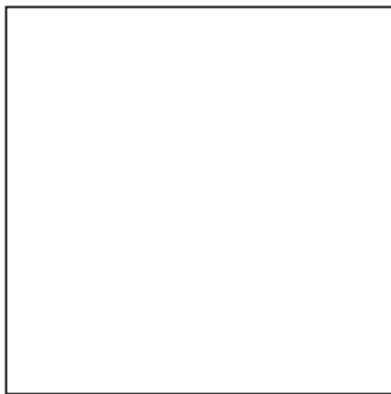


Constellations WebQuest Worksheet

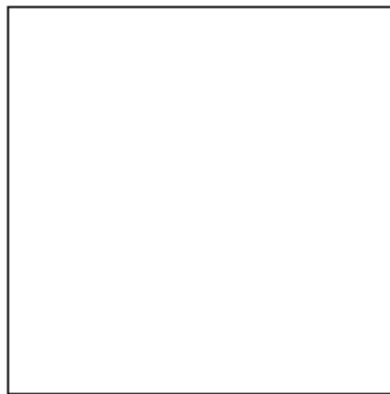
1. Read "*What is a Constellation?*" After you have read that section, define constellation.

2. Read "*Where Do Constellations Come From?*" After you have read that section, explain how we got constellations.

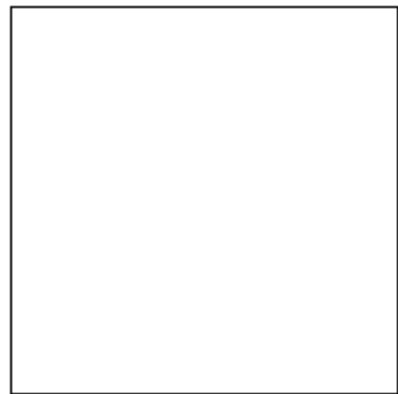
3. In the boxes, sketch the constellation. (If there is not a picture on the page, click on the ***Interactive Star Chart*** link. Then, check the box that says ***Use new constellations.*** Once you have done that, draw a picture of the constellation.)



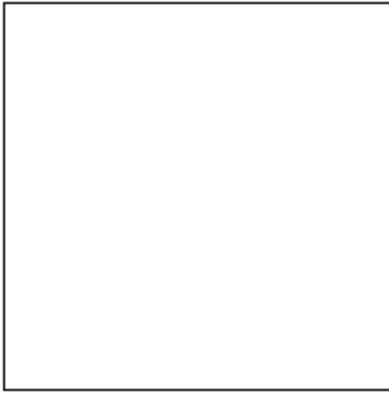
Ursa Major



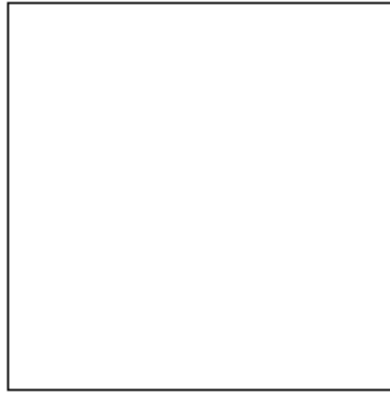
Orion



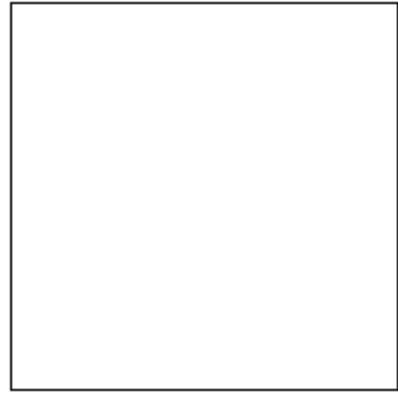
Cassiopeia



Taurus



Scorpius



Coma Berenices

The Myth

(Note: As you read your myths, you may find that there is more than one myth associated with that constellation. If there are two or more myths, select one of them for questions #4 - #5.)

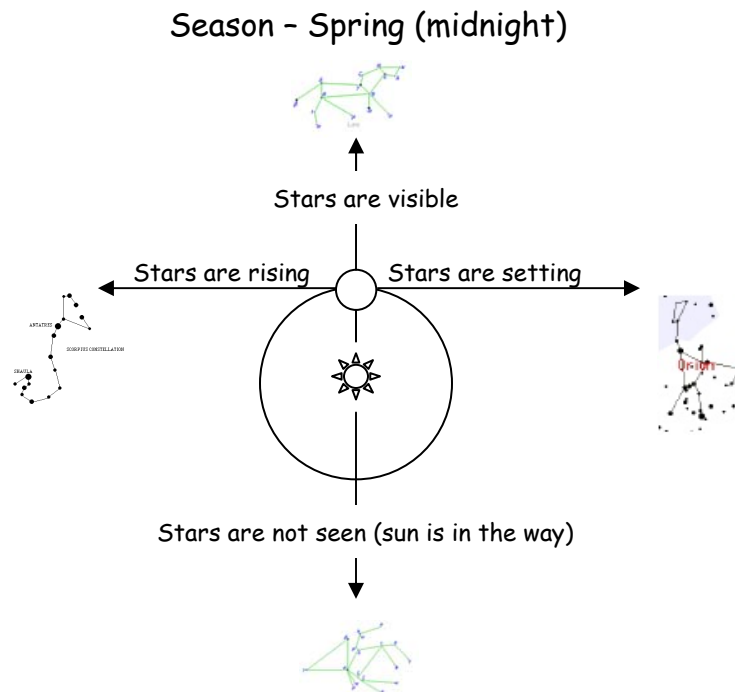
4. *In your own words (must be at least 5-7 sentences long),* tell the story of Coma Berenices.

5. *In your own words (must be at least 5-7 sentences long),* tell the story of Draco.

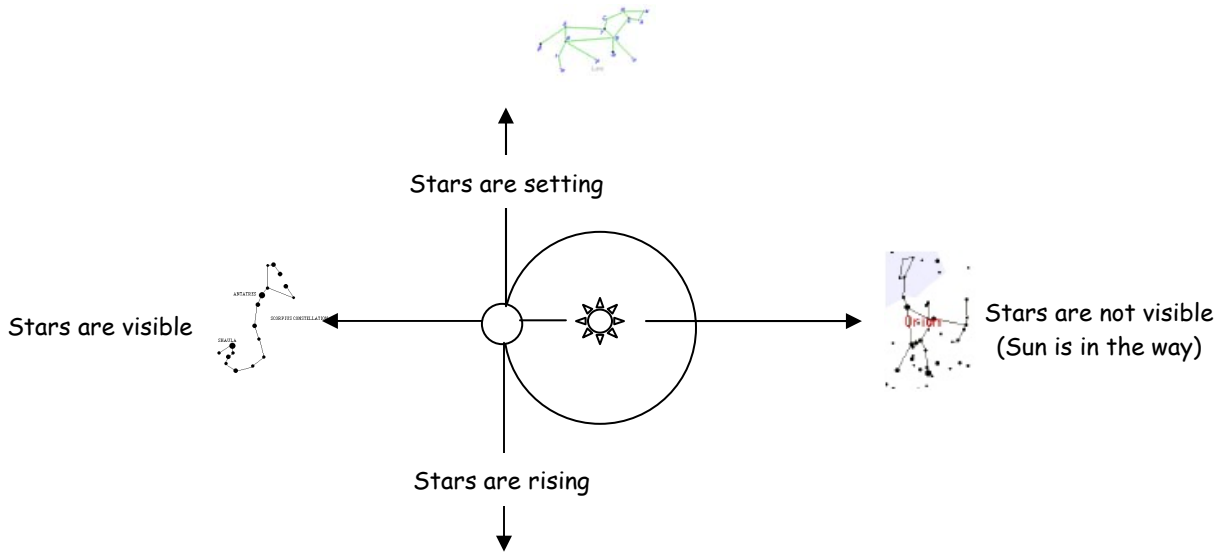
6. Using the "Alphabetical Listing of Constellations," complete the table. (Note: On the web page, select the constellation from the list. To find the brightest star, go to the "Named Star List." The first star on this list is the brightest star [listed as Alpha ...]. "Month Best Seen" is found under "Position in the Sky.")

Constellation	Abbreviation	Brightest Star	Month Best Seen
Aquila			
Boötes			
Cygnus			
Gemini			
Hercules			
Lyra			
Ophiuchus			
Scorpius			
Ursa Minor			
Virgo			

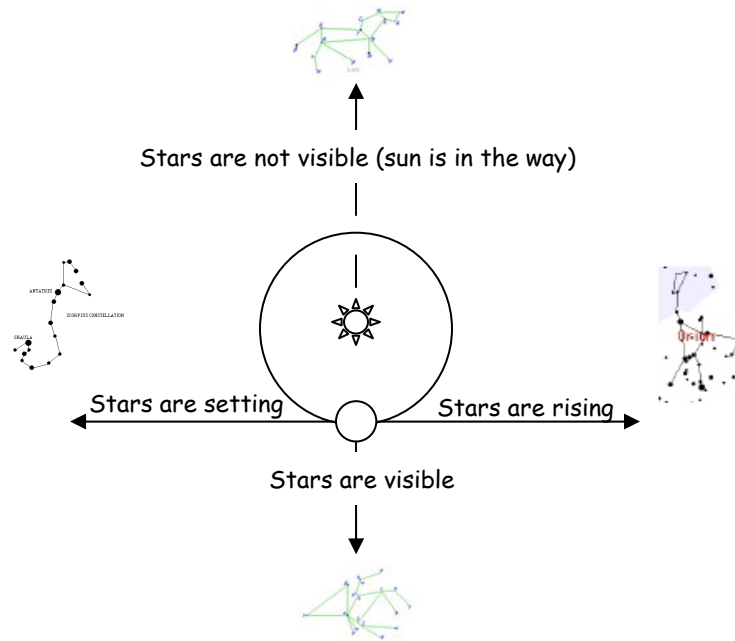
We see different constellations throughout the year because the Earth revolves around the Sun.



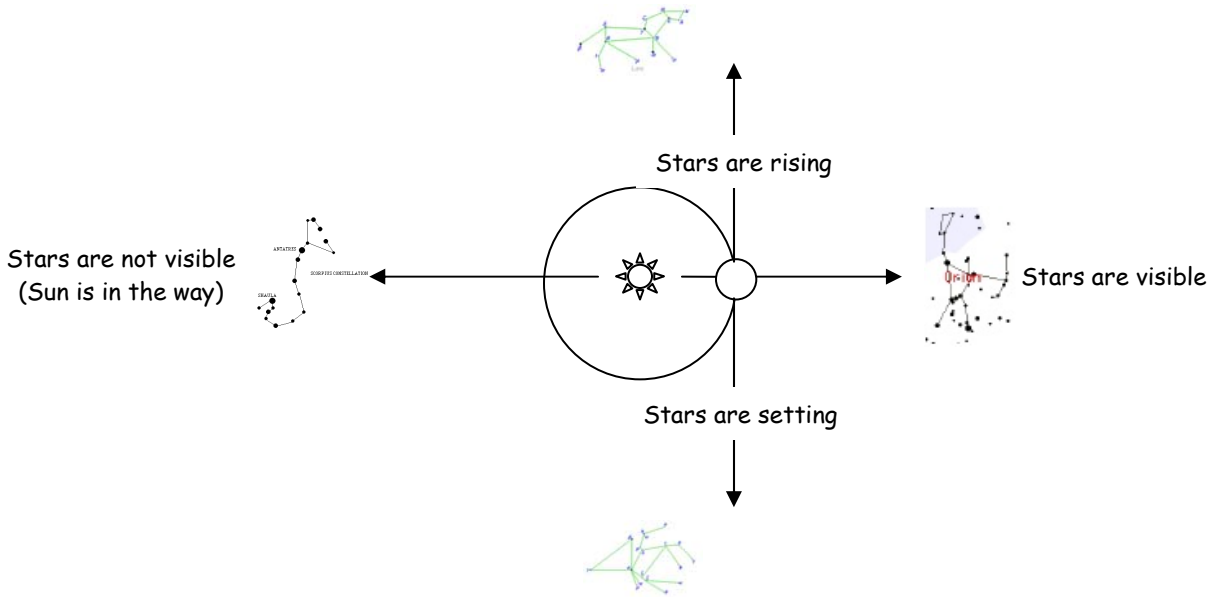
Season - Summer (midnight)



Season - Fall/Autumn (midnight)



Season - Winter (midnight)



Using the star charts on the WebQuest page, answer the next four questions.

7. List the names of four constellations you can see during winter.

1.	3.
2.	4.

8. List the names of four constellations you can see during spring.

1.	3.
2.	4.

9. List the names of four constellations you can see during summer.

1.	3.
2.	4.

Genius is one per cent inspiration and ninety-nine per cent perspiration. Accordingly, a 'genius' is often merely a talented person who has done all of his or her homework.

- Thomas Edison

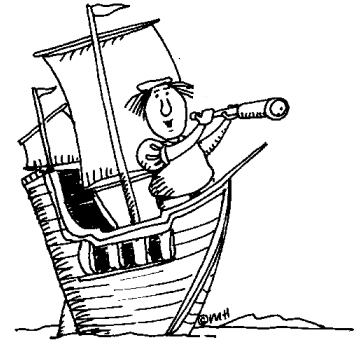
10. List the names of four constellations you can see during fall

1.	3.
2.	4.



*I must go down to the sea again
To the lonely sea and sky
And all I ask is a tall ship
And a star to steer her by.*

-Sea Fever by John Masfield



Latitude and the North Star

Using the latitude table, complete the table.

Location	Latitude ($^{\circ}$ N or $^{\circ}$ S)	Location	Latitude ($^{\circ}$ N or $^{\circ}$ S)
North Pole		Tropic of Cancer	
Equator		Article Circle	
London, England		Washington, D.C.	
Helsinki, Finland		Ottawa, Canada	

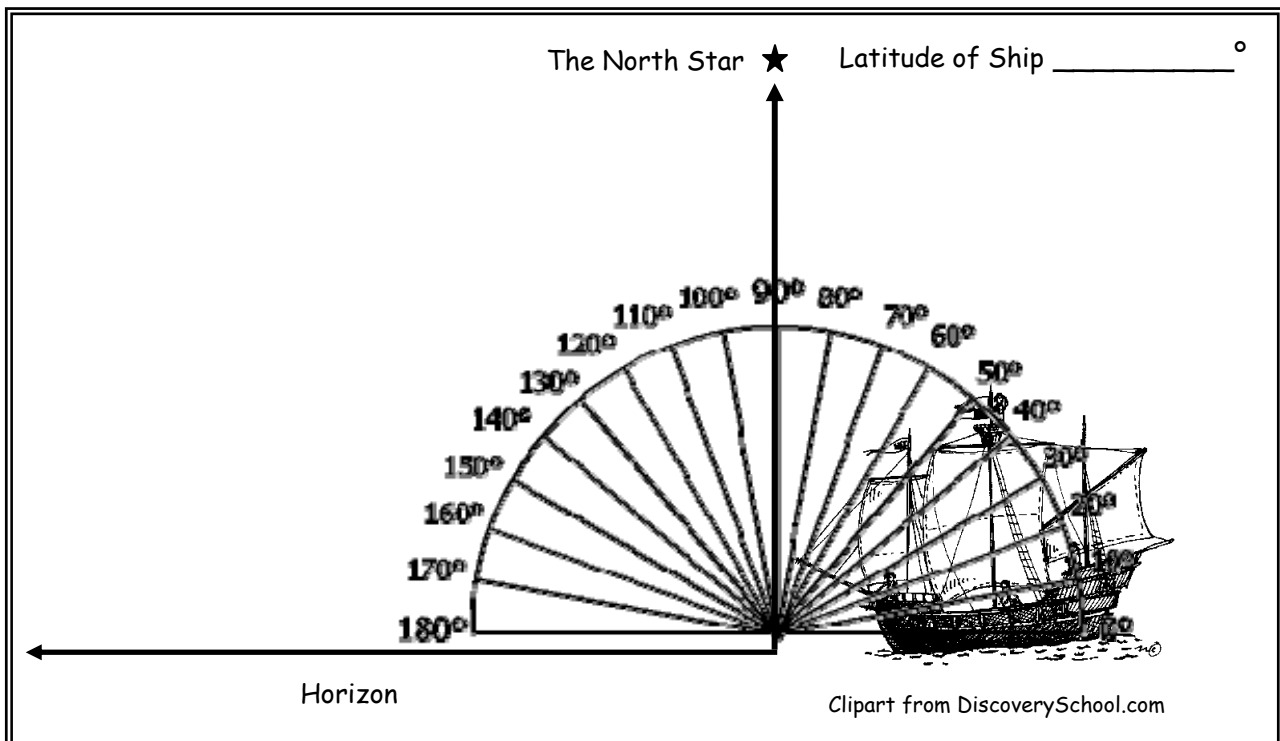
When you are courting a nice girl, an hour seems like a second. When you sit on a red-hot cinder, a second seems like an hour. That's relativity.

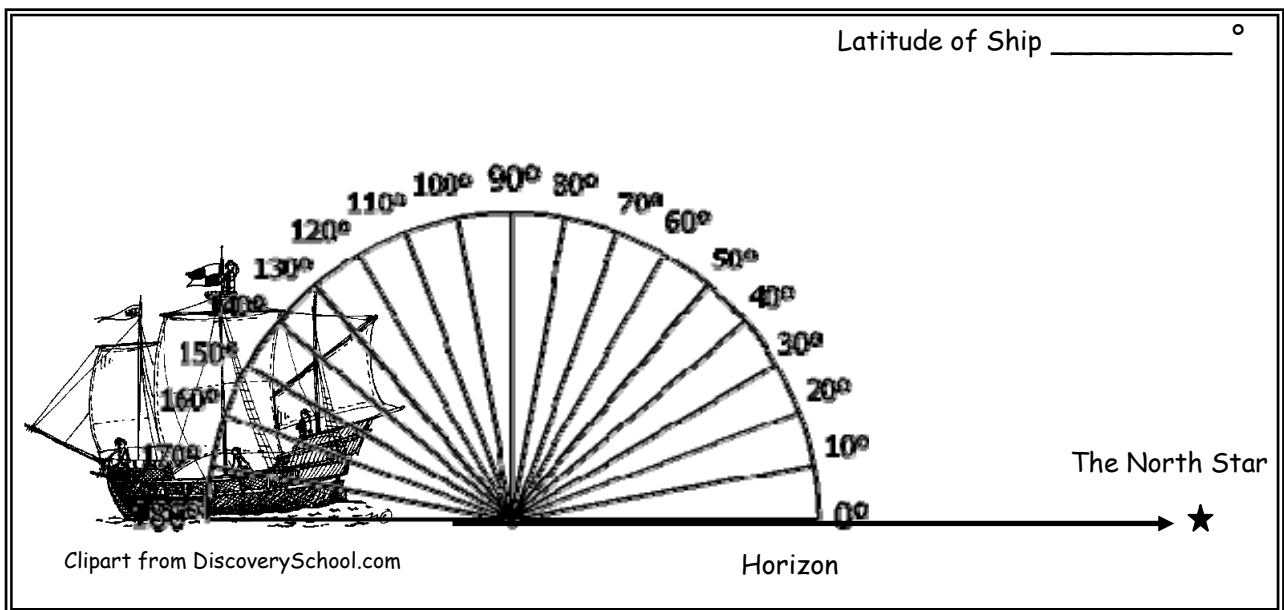
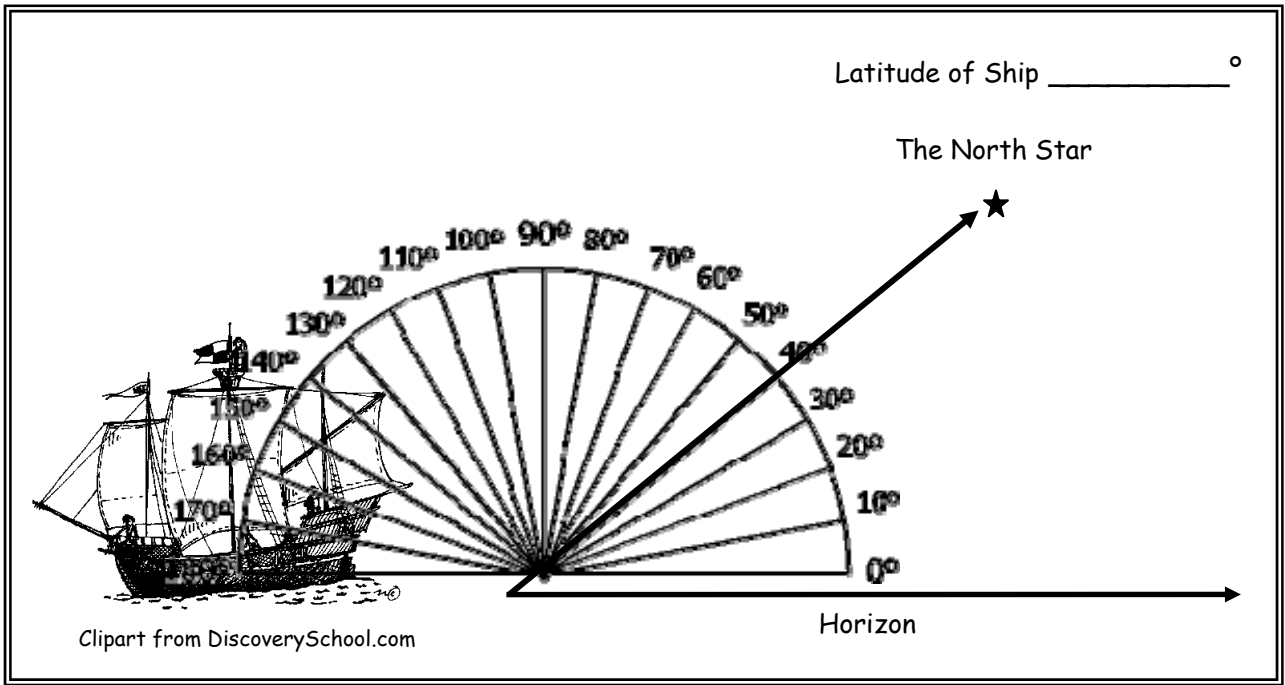
~Albert Einstein

Key Latitudes

Antarctic Circle 66° S	Arctic Circle 66° N	Equator 0° N/S
Fairbanks, Alaska 64° N	Helsinki, Finland 60° N	Houston, Texas 29° N
London, England 51° N	Madrid, Spain 40° N	North Pole 90° N
Ottawa, Canada 45° N	Paris, France 48° N	Rio De Janeiro, Brazil 22° S
South Pole 90° S	Sydney, Australia 33° S	Tokyo, Japan 35° N
Tropic of Cancer 23.5° N	Tropic of Capricorn 23.5° S	Washington, D.C. 38° N

Look at the diagrams below. Using the protractor, measure the angle of the North Star (Polaris) relative to the horizon and write down the latitude of the ship.





Explain what happened to the North Star as it approached 0° (The Equator).

If your boat sailed to 20° S (below the Equator), would you be able to see the North Star? Why?



The Stars as a Calendar

Read the article *This Just In! Pleiades Potato Plot Proven* and explain how the Pleiades were used as a calendar.

Ancient Time

Answer the following questions as you learn about time! Start with the Aztecs.

1. How long was an Aztec year?

2. What was an "unlucky day"?
3. The Chinese calendar aligns perfectly with the cycle of the _____.
4. List your birthday (month/year), your Chinese Zodiac sign, & Chinese year you were born.
 - a. Birthday -
 - b. Sign -
 - c. Year -
5. What star did the Egyptians use to tell them the Nile was going to flood?
6. The Egyptians most accurate calendar was based on the _____.
7. The ancient Egyptians learned to keep track of time at night us an instrument called a _____.



The Great Stinx of Egypt