

# Science

## What is a constellation?

a pattern formed by prominent stars within apparent close proximity to one another often times having a mythological tale to explain the group or pattern

**SWBAT**

State what a constellation is

## Science

# Circumpolar Constellations

Constellations that are located around the North Star, Polaris, and are therefore visible year round from the northern hemisphere.

**SWBAT**

Name the constellations and tell where they are in the sky

# Science

## Circumpolar Constellations

**Include:**

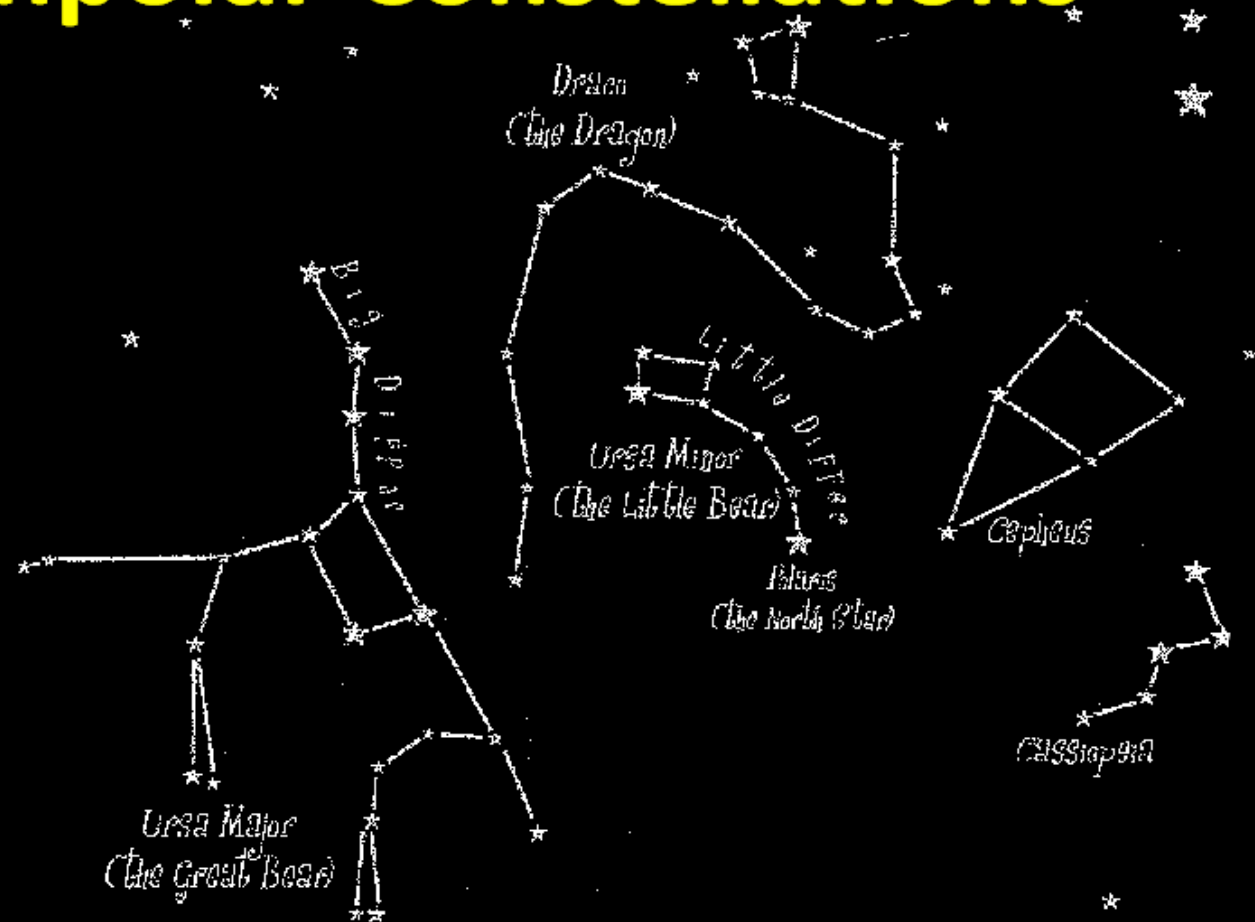
Ursa Major

Ursa Minor

Cepheus

Cassiopeia

Draco



**SWBAT**

Name the constellations and tell where they are in the sky

# Science

## Circumpolar Constellations


### Ursa Major and The Big Dipper

By far the easiest  
constellation to find because  
5 of the seven stars in the  
big dipper are bright enough  
to be seen from cities

**SWBAT**

Name the constellations and tell where they are in the sky

The star marked with the purple "X"  
points straight at the North Star.

A star chart on a black background showing the constellation Ursa Major and the Big Dipper. The stars are connected by white lines. A purple 'X' is placed over the star at the end of the 'pointer' stars (the two stars that form the 'cup' of the dipper), indicating its direction towards the North Star. The text 'Ursa Major and The Big Dipper' is written in yellow on the left. Below it, a paragraph explains that it's the easiest constellation to find because five of its seven stars are bright enough to be seen from cities. At the bottom left, the acronym 'SWBAT' is written in red. At the bottom, a white line of text asks the viewer to name the constellations and tell where they are in the sky. A purple line of text explains that the star marked with the purple 'X' points straight at the North Star.

# Science

## Circumpolar Constellations

**Ursa Minor or  
The Little  
Dipper**

**Harder to find than  
some. Key star to look  
for is Polaris, the  
North Star.**



**SWBAT**

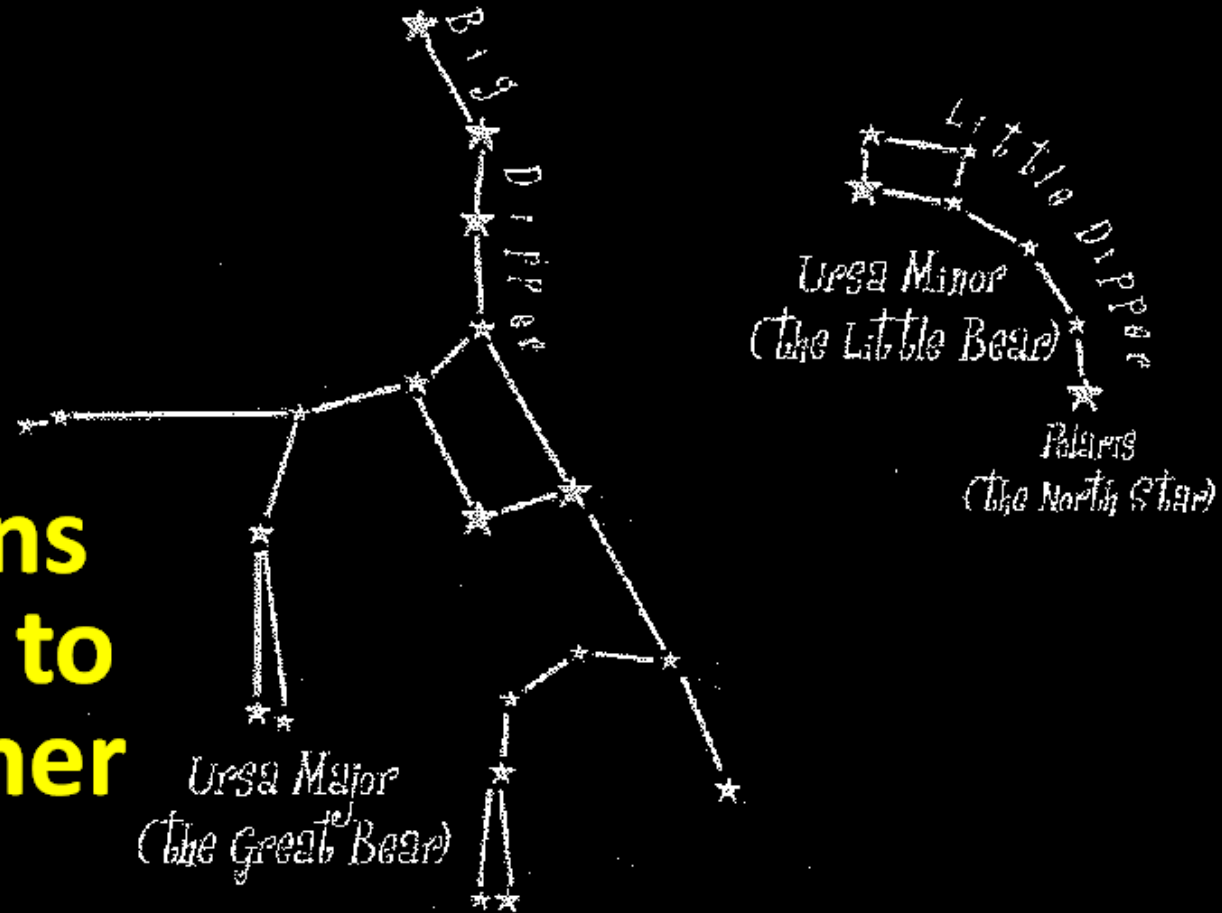
Name the constellations and tell where they are in the sky

# Science

## Circumpolar Constellations

Positions  
relative to  
each other

**SWBAT**



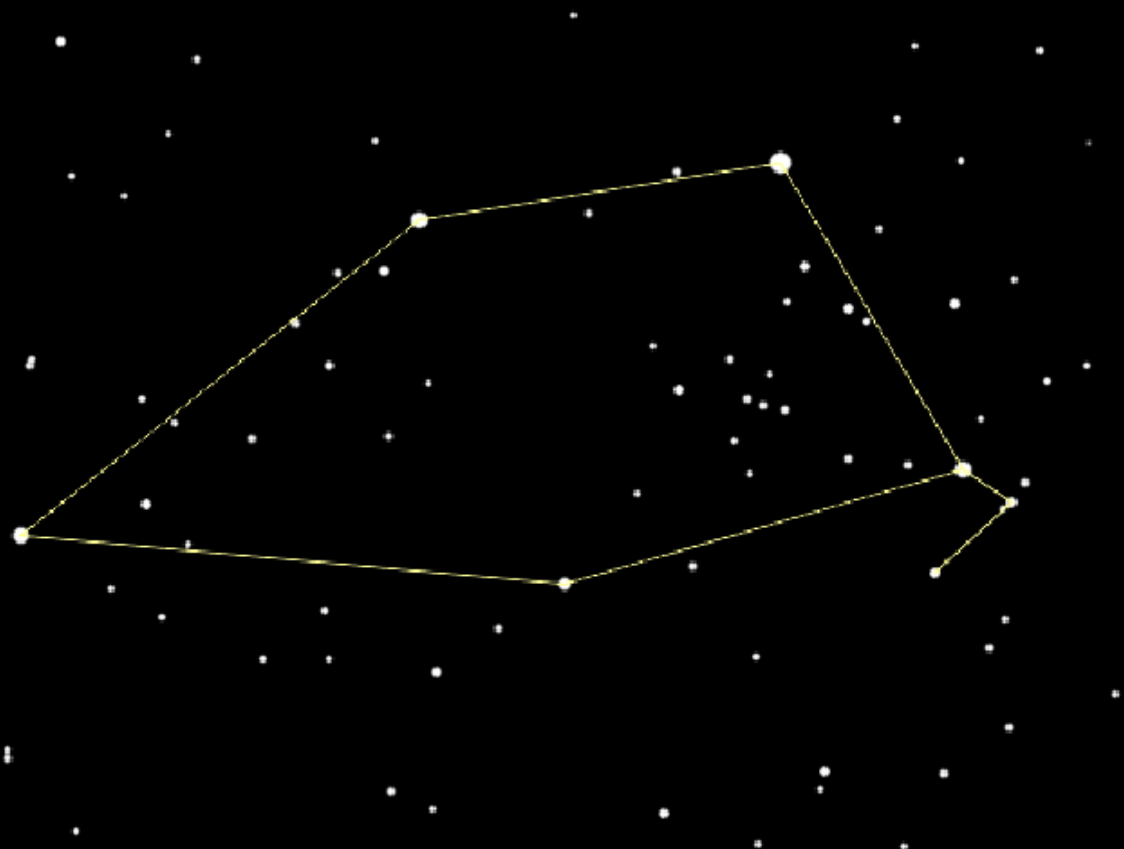
Name the constellations and tell where they are in the sky

# Science

## Circumpolar Constellations

### Cepheus

The point of the figure is a star just to the right of the north star



**SWBAT**

Name the constellations and tell where they are in the sky

## Science

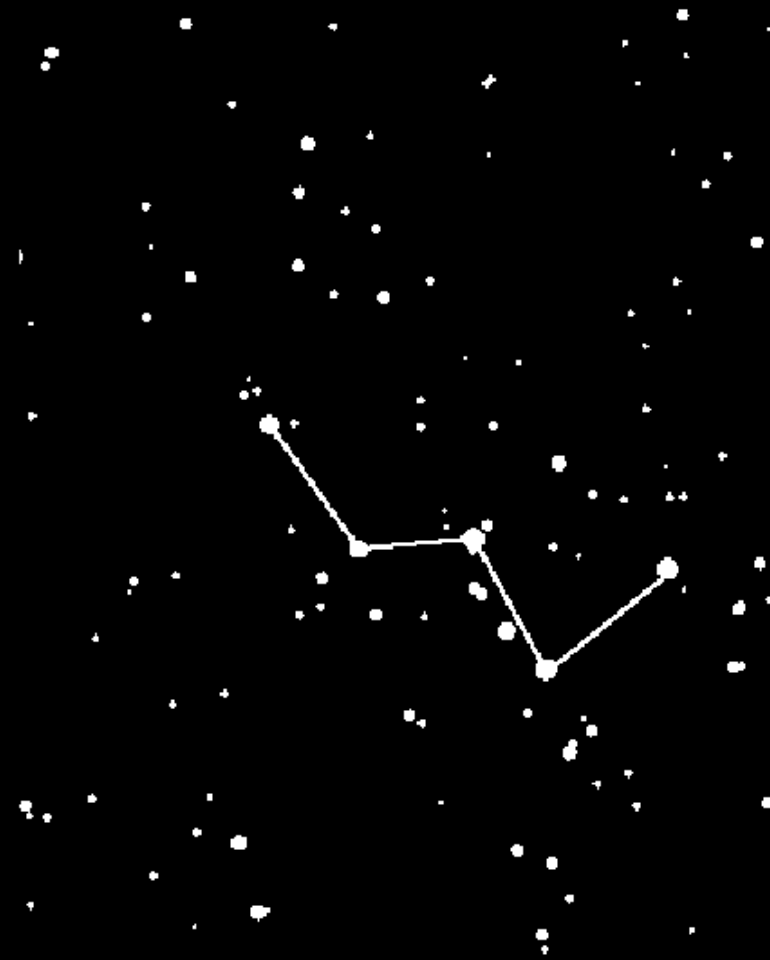
# Circumpolar Constellations

## Cassiopeia

Easily remembered by the “w” shape it makes, it is just down and to the right from the point of Cepheus

**SWBAT**

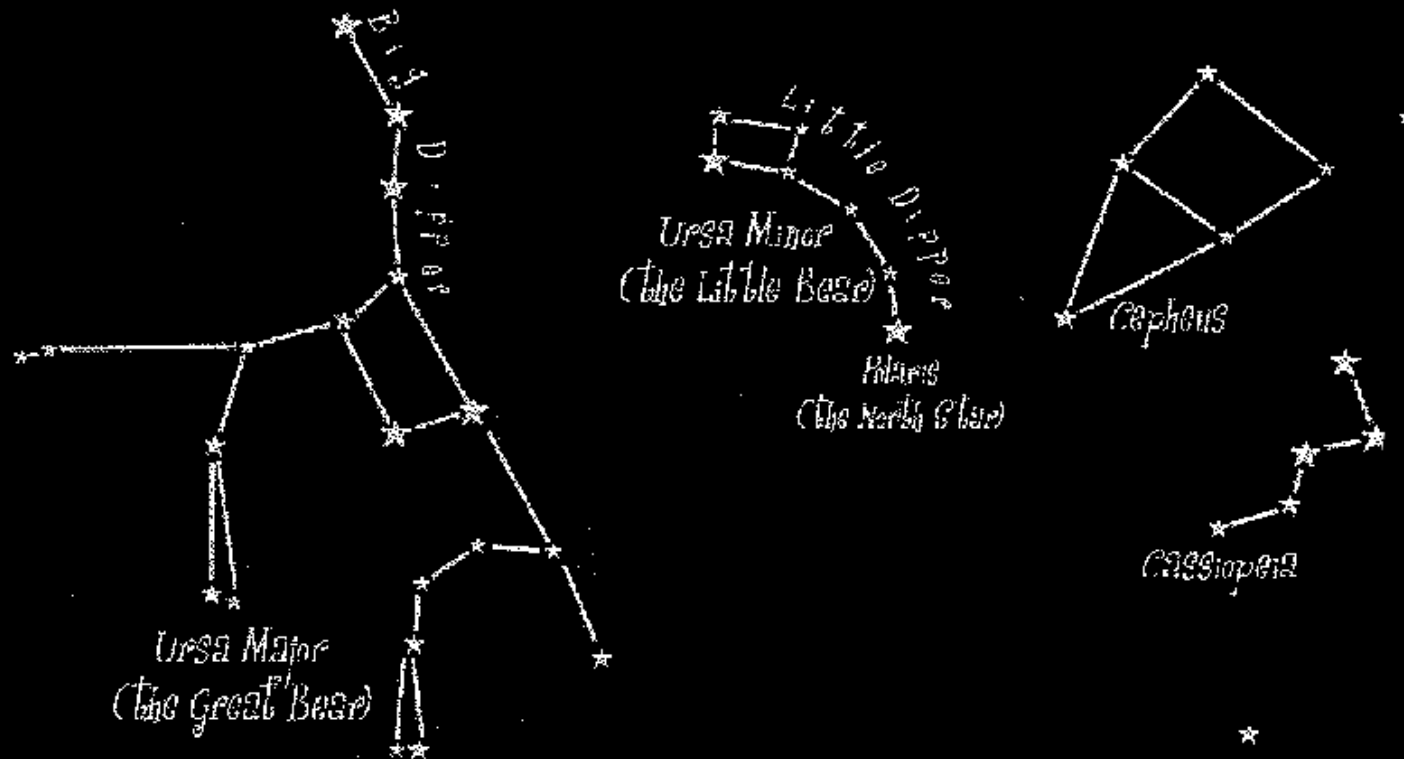
Name the constellations and tell where they are in the sky





# Science

## Circumpolar Constellations



**SWBAT**

**Positions relative to each other**

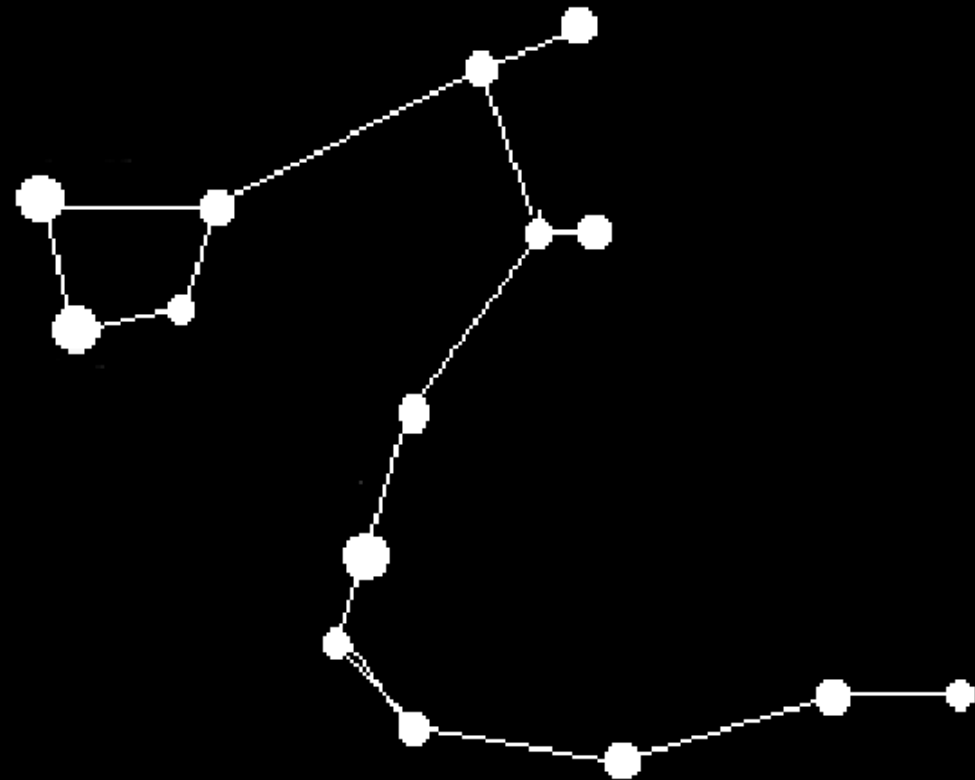
Name the constellations and tell where they are in the sky

# Science

## Circumpolar Constellations

### Draco

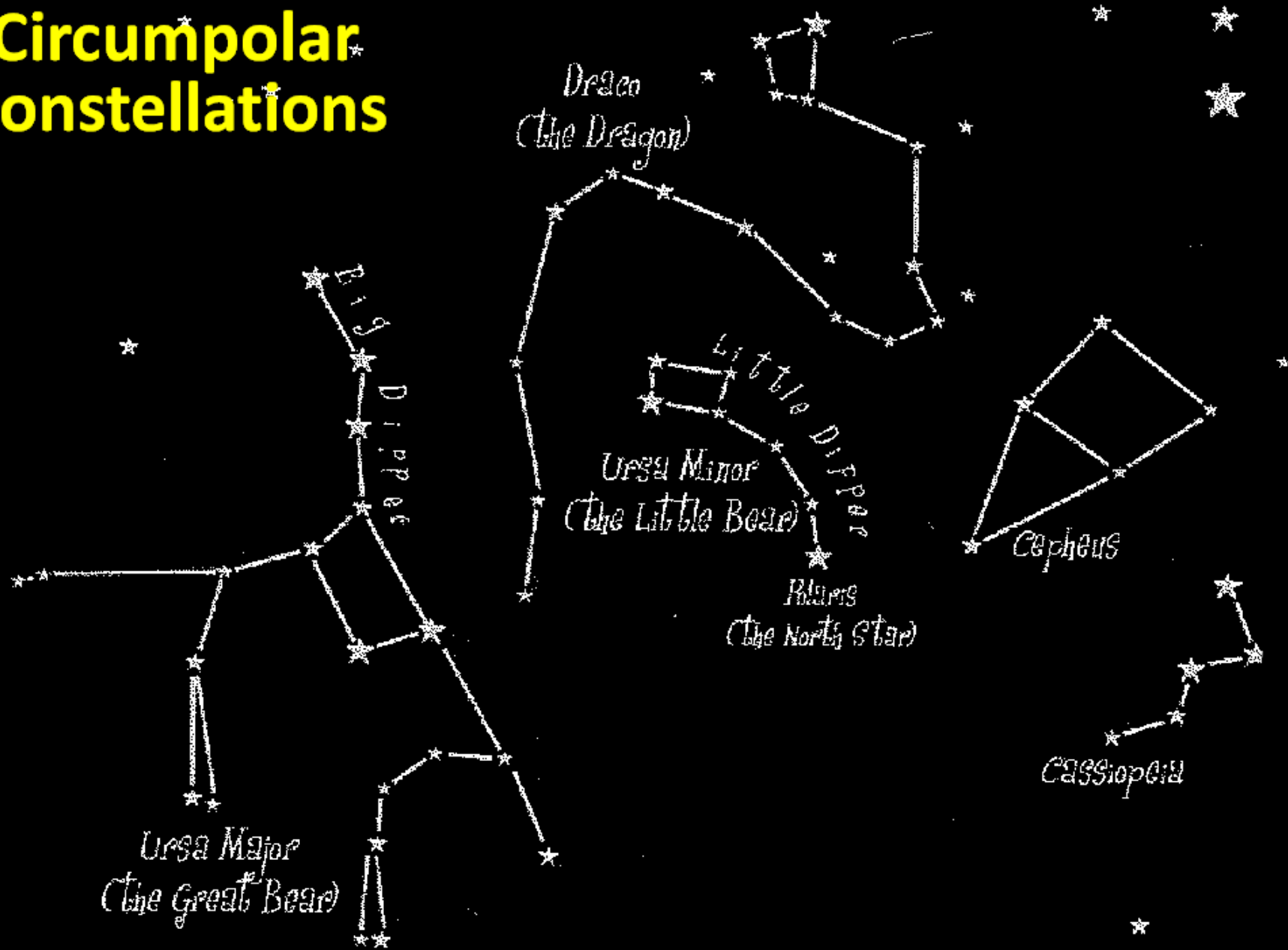
Up from the North  
Star, his tail wraps  
around the Little  
Dipper



**SWBAT**

Name the constellations and tell where they are in the sky

# Circumpolar Constellations



# Science

## Constellations in the Winter Sky

Include:

Orion

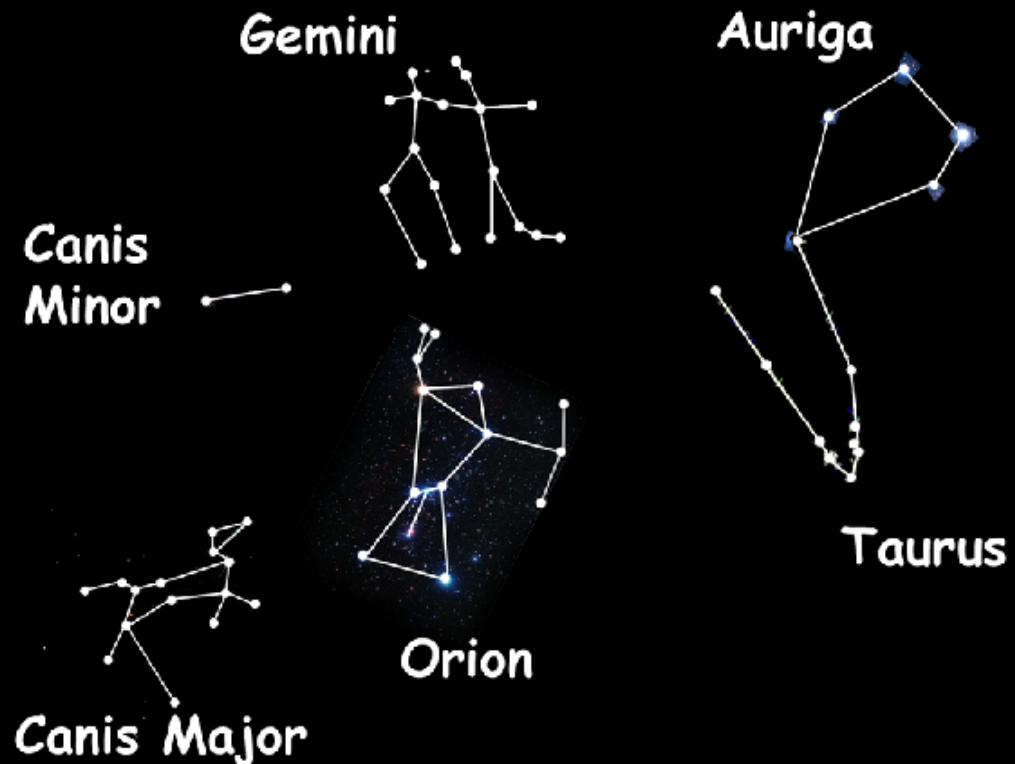
Canis Major

Canis Minor

Gemini

Auriga

Taurus



**SWBAT**

Name the constellations and tell where they are in the sky

# Science

## Orion The hunter

Easiest points  
to find are the  
three stars of  
his belt

**SWBAT**



Name the constellations and tell where they are in the sky

Science

# Canis Major The Big Dog



Sirius is the star at the throat of the dog. To locate it you look to the left of Orion's belt

**SWBAT**

Name the constellations and tell where they are in the sky



# Science

## Canis Minor The Little Dog

The line drawn  
from Orion's  
shoulder stars  
will lead you  
straight to it

**SWBAT**

Name the constellations and tell where they are in the sky

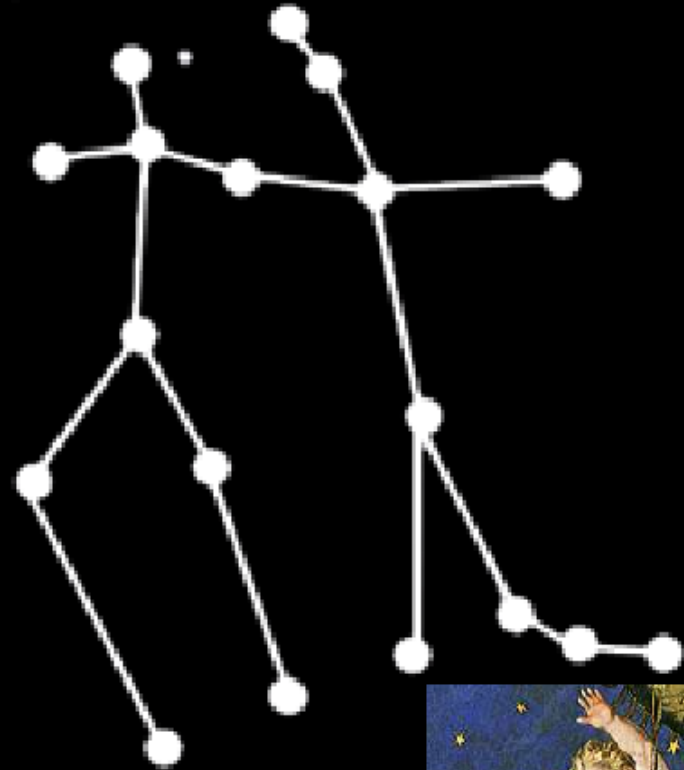


Science

# Gemini The Twins

The left side of  
Orion's torso  
will draw a line  
up to it.

**SWBAT**



Name the constellations and tell where they are in the sky



Science

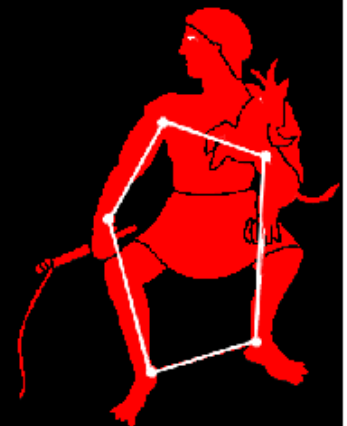
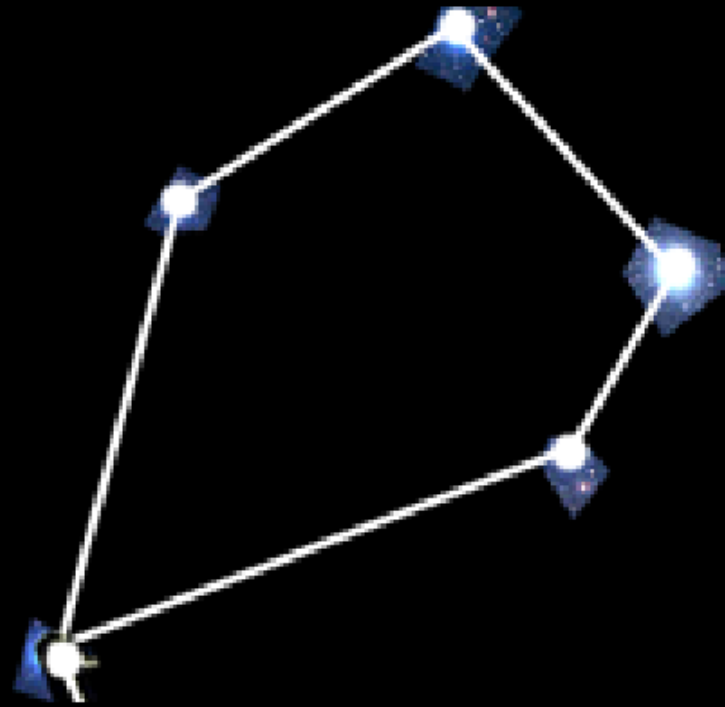
# Auriga

## The charioteer

The line drawn  
by the left side of  
Orion's tunic will  
point straight  
toward it

**SWBAT**

Name the constellations and tell where they are in the sky



Science

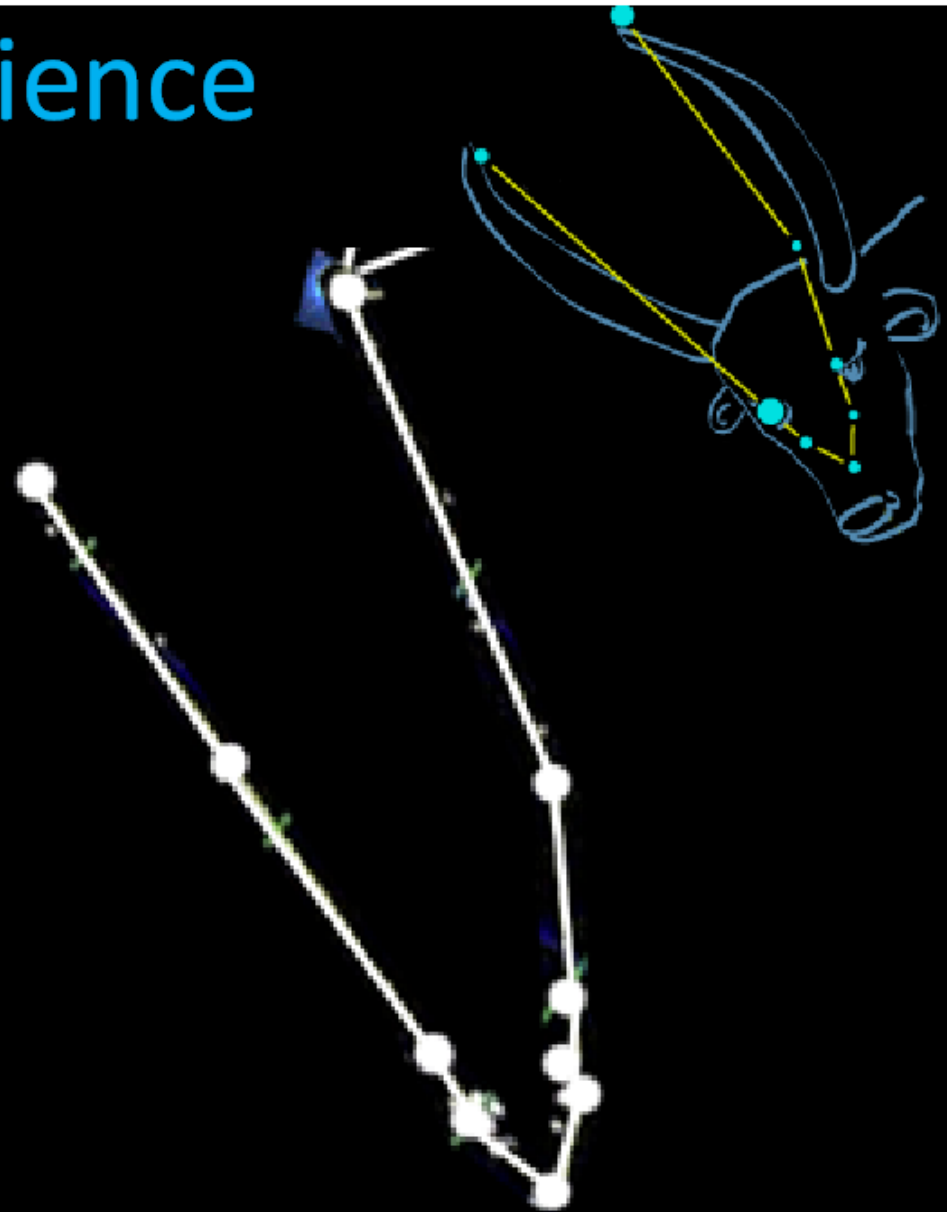
# Taurus

## The Bull

A line drawn  
from Orion's belt  
to the right will  
take you to the  
nose of the bull

**SWBAT**

Name the constellations and tell where they are in the sky

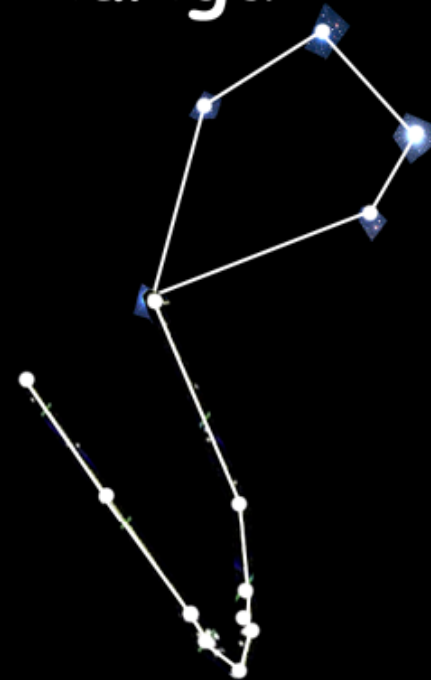


# Winter Constellations

Gemini



Auriga



Canis  
Minor



Canis Major

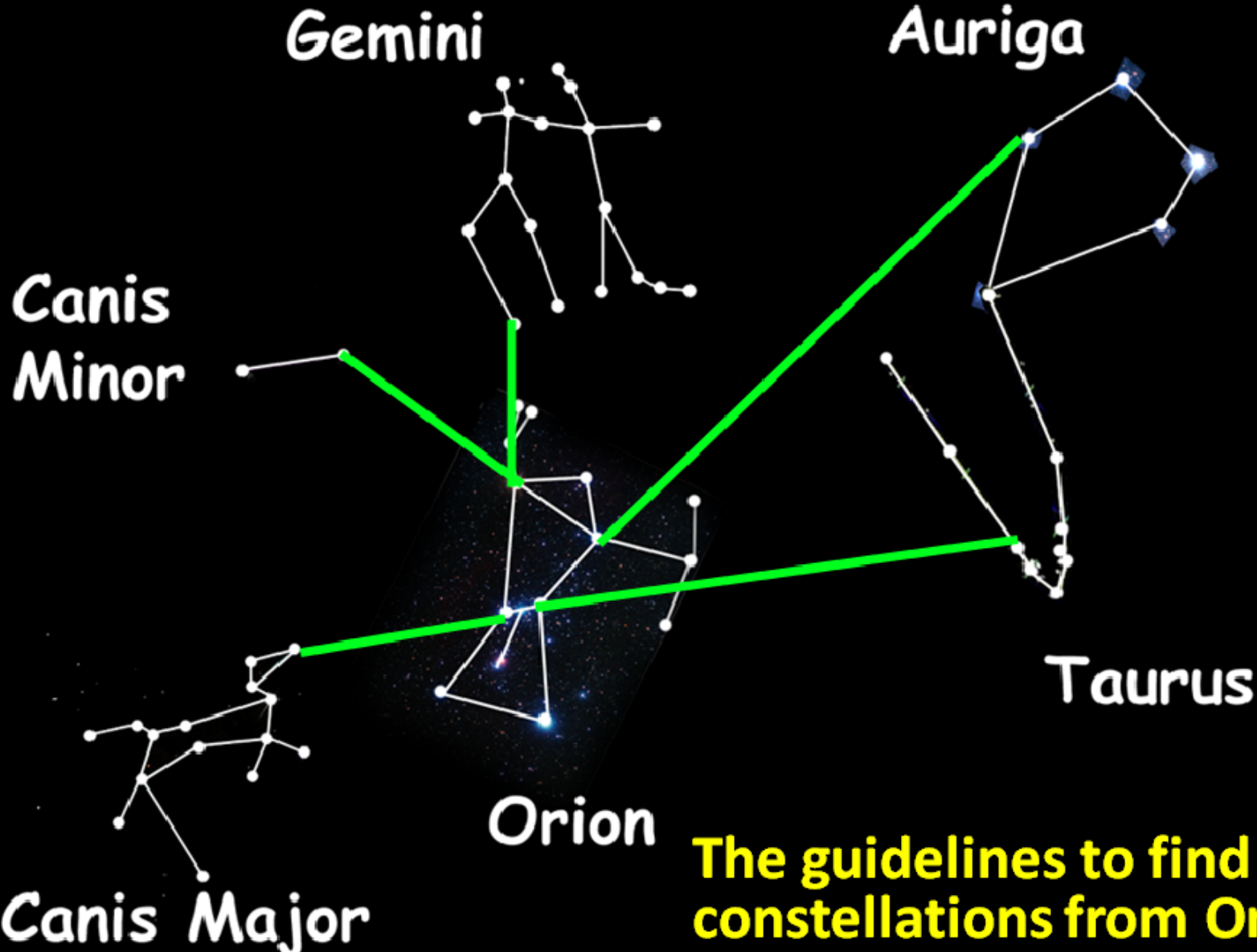


Orion

Taurus

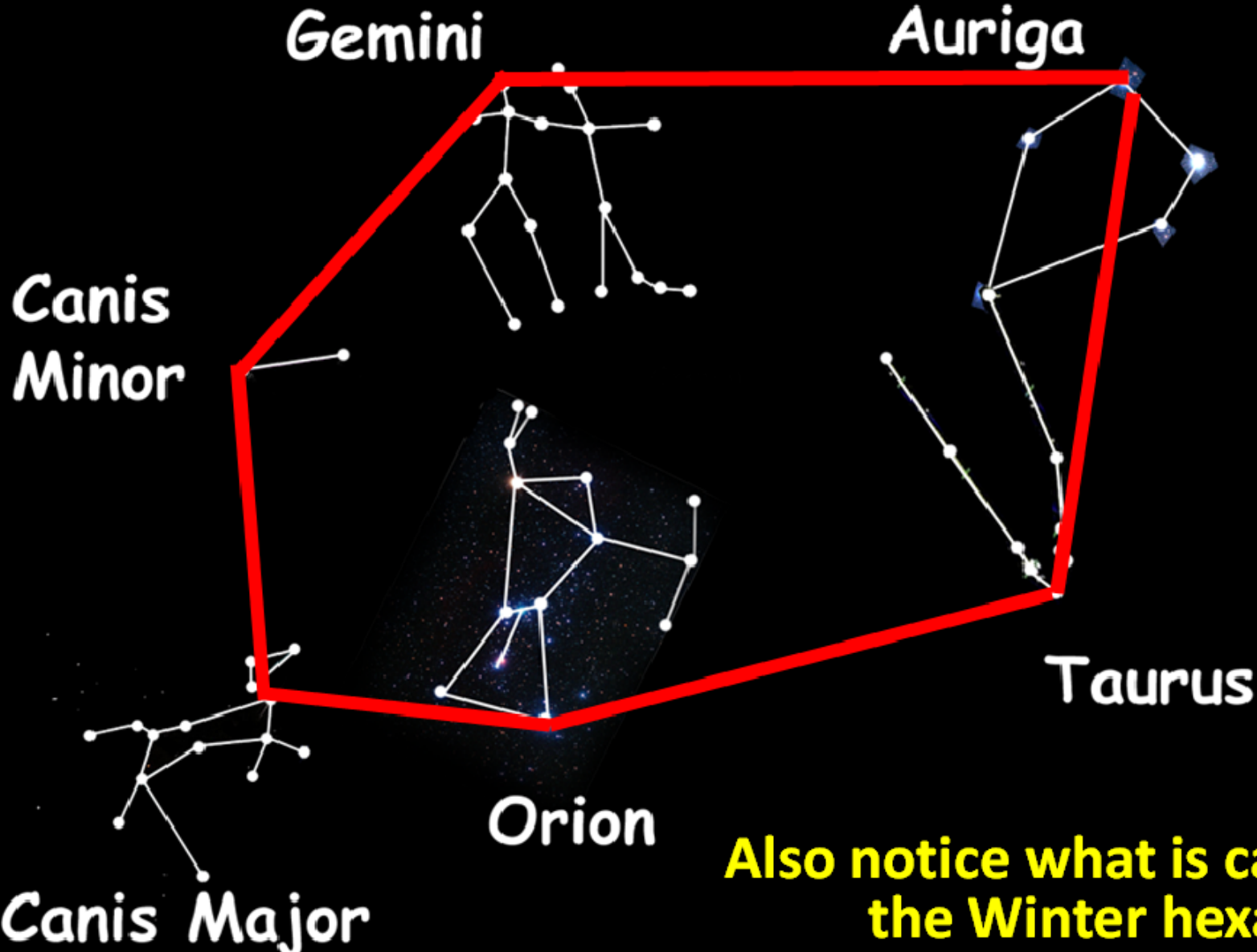


# Winter Constellations



**The guidelines to find the constellations from Orion**

# Winter Constellations



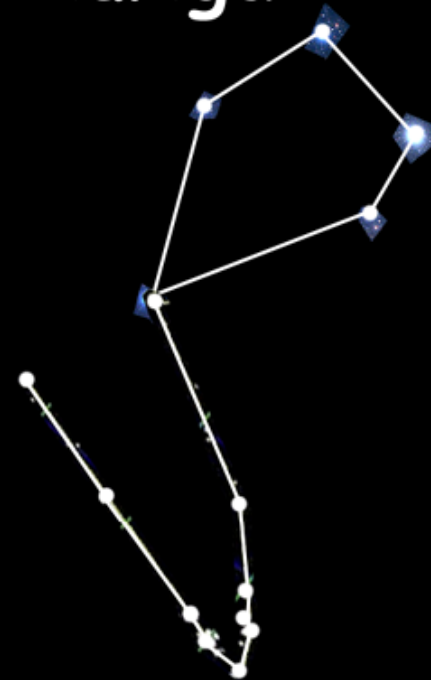
Also notice what is called the Winter hexagon

# Winter Constellations

Gemini



Auriga



Canis  
Minor



Canis Major



Orion

Taurus

