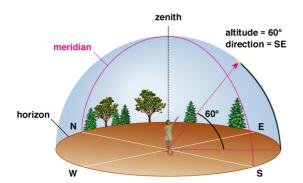
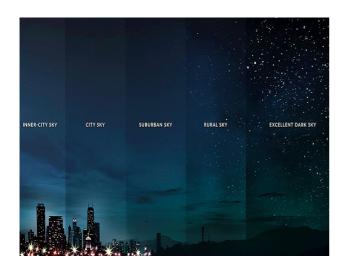
Night Sky basics



The Night Sky You need only to look up for a few hours to begin to see these same patterns yourself. Like the Sun, stars rise in the east and set later in the west. Planets follow this same pattern unless they are in a retrograde period, though these periods are not especially common.

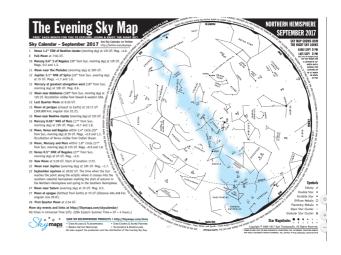


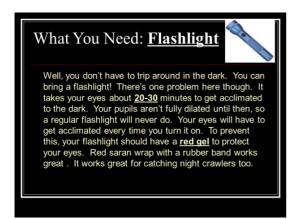




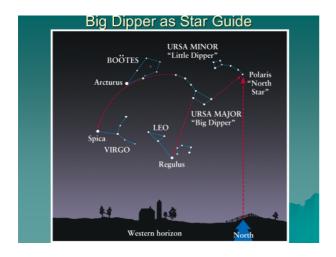


Identifying constellations









Constellations

Constellation Facts

- Group of stars all in roughly the same direction from Earth, BUT Each has its own different distance from the Earth
 - Therefore, NOT grouped together is space

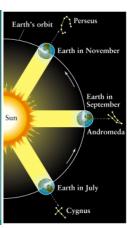
Constellation Facts

- Many constellations come from Greek astronomers and are of mythological figures or animals
- Different cultures on Earth each have different names for the constellations

Visible Constellations change over a vear

- ◆ May have heard ...
 - "Orion is a winter constellation"
 - "You can see Cygnus most of the summer'
- Above comments arise because you cannot see the Constellations near where the Sun is in the sky
 - Sun so bright it washes out rest of stars
- Since Sun moves along the Ecliptic over a year the constellations "away" from the Sun change over a year.



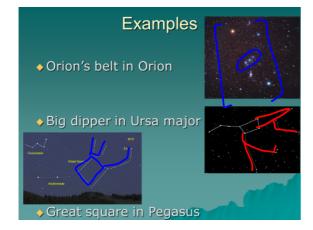


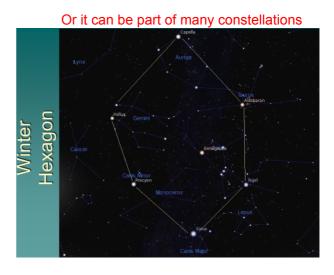
The Zodiac

- Band of constellations closest to the Ecliptic (Sun's yearly path across the sky)
- ◆Correspond to Horoscope "Signs"
 -Astrology used to make predictions (not science!)
- Useful for backyard astronomy:
 Planets and the Moon can <u>always</u> be found in the Zodiac
- Width of the Zodiac belt ~ 18°

Not everything is a constellation

- Asterism :In astronomy, an asterism is a pattern of stars recognized in the Earth's night sky.
- It may be part of an official constellation or it may be composed of stars from more than one constellation.





Sky journal observations

Grading

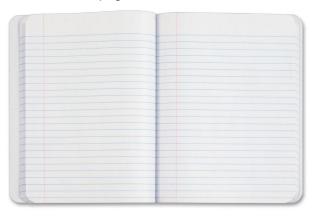
Night Sky Viewing Observation logs

	Points available	Points earned
Updated table of contents	Week # and viewing dates 2	
Headings	1 point each entry (6 points total)	Constellation name: Asterisms: * if applicable
Organization	4	
Sketch *screen shot extra credit (phone only)	2 points each entry (6 points total)	
History/mythology	2 points each entry (6 points total)	
Time of viewing	1	
Total:	25	

Sky journal



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unit 2 night sky basics.notebook

3 constellation observations

