

Stellarium

1. Open Stellarium.

Move your mouse to the lower left corner of the screen to open the menu panels.



2. Click on the Location window Icon.



Enter your location (if your location is not listed, choose the nearest location to yours). Click on Use current location as default.

	Location	×
	'Afak, Iraq 'Ain Abid, Algeria 'Ain Benian, Algeria 'Ain Deheb, Algeria 'Ain Merane, Algeria 'Ain el Bell, Algeria 'Ain el Berd, Algeria 'Ain el Hammam, Algeria 'Ain el Melh, Algeria 'Ain el Turk, Algeria	
-	Reset Location List	
Current location information		
Latitude: N 32º 26' 55.46" 🖨	Name/City: Abilene	Enter
Longitude: W 99° 43' 59.30" 🖨	Country: United States	your
Elevation: 525 m	Planet: Earth	location
Get location from GPS	Time zone: America/Chicago	here
Get location from Network	🗌 Use custom time zone	
Add to	Enable daylight saving time list Delete from list Return to default lo	cation

Close the window.

3. Click on the Configuration window Icon.



Click on the Information tab, then click on All available.

Configuration								×		
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Main	Information	Extras	Time	Tools	Scripts	Plugins				
Foloc	tod object infer	mation								
Ociec	teu object mion						<u></u>			
	available	•	Short		0	None	 Customized 			
Displa	ayed fields									
V Nar	ne				▼	Visual magnitude				
Cat	talog number(s)					Absolute magnitude				
Rig	ht ascension/Dec	lination (J2			▼					
Rig	, ht ascension/Dec	lination (of	date)		▼	✓ Size				
THO	ur angle/Declinatio	on			₹	Velocity				
🗹 Azi	muth/Altitude					Distance				
Ecl	iptic coordinates	(J2000)				Sidereal time				
🗹 Ecl	, iptic coordinates	(of date)				Constellation				
🗹 Gal	actic coordinates					Rises, transits and sets				
🗹 Su	pergalactic coordi	inates				Additional information				

Click on the Extras tab, then select the buttons shown in the figure below.

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Main Information Extras Time Tools Scripts Plugins								
Additional information settings								
Use chort potation for unit of measurement of surface brightness								
Use designations for celestial coordinate systems								
Additional buttons								
Show constellation boundaries button								
Show asterism lines button	Show flip buttons							
Show asterism labels button	Show DSS button							
Show ecliptic grid button								
Show ICRS grid button								
Show galactic grid button								
Show Centering button								
Show nightmode button								
Star catalog updates								
All available star catalogs have been installed								

Close the window.

4. Familiarize yourself with some of the most used Icons.



5. How to view constellations that are visible in tonight's sky.

Click on the Date / time window Icon.



Change the hour to 22 then close the window.

	Date and Time									×	
1	Da	ate and	l Time	e			J	ulian Da	У		
						-		*			
	2019	-	6	-	15	22	:	45	:	0	
	-		*		v			v		v	

Click on Constellation lines and Constellation labels Icon.



6. Click on the Search window Icon.



7. Type M16 in the search window as shown in the image then press Enter or click the Search button.

Search window X									×					
	Obj	ject		Po	ositio	n		List	5		Opti	ons		
			- X-										2	
	M16)										9		
1	M16,	M 16												
					Simb	ad Loc	kup: F	Found						
				Greek	letter	s for E	Bayer	design	ations					
	a	β	Y	δ	ε	ζ	η	θ		к	λ	μ	Į	
	v	ξ	0	П	ρ	σ	Т	U	φ	X	Ψ	ω	J	

8. Depending on your local time, you may have to move the sky, hide the ground and zoom in to see M16 above the horizon.

To hide the ground, click on the Ground Icon.



To zoom, use the mouse wheel or press $\)''$ to zoom in and $\)''$ to zoom out.



9. Search for a target by clicking on the search window Icon located on the left side menu panel.



Click on list.

	×		
Object	Position	Lists	Options
Asterisms	_	-	•
Search in list			8
Big Dipper (Plough)			<u> </u>
Butterfly			
Circlet			
Coathanger			
Davis' Dog			
Diamond Cross			-

From the drop-down menu, select Constellations, then select Fornax.

	Search	window	×
Object	Position	Lists	Options
Constellations			
Search in list			8
Draco			<u>^</u>
Equuleus			
Eridanus			
 Fornax			
Gemini			
Grus			

What is the name of the main star?

10. From the drop-down menu, select Asterism, then select Summer Triangle.

What are the names of the three stars of the Summer Triangle?

Note:

Magnitude is a measurement of brightest of a celestial object. The higher the number, the fainter it is. The lower the number, the brighter it is.

Transit is when a celestial object crosses your local meridian, the halfway point between rising and setting.

11. Using Stellarium, search for M27.

What is another name M27 is known by? What type of object is it? What is its magnitude? When does it transit on 21 September 2019?

12. Using Stellarium, search for M6.

What type of object is it? What is its magnitude? What is its distance? When does it transit on 21 June 2019?

13. Search for M51.

What is another name M51 is known by? What is its distance? When does it transit on 21 March 2019?

14. Search for M10.

What type of object is it? What is its magnitude? What constellation is it in? What is its distance?

15. To reset Stellarium to current time, click on Constellation lines and Constellation labels Icon click, then click on the Set time to now Icon.



