

# THE CABRERERA ASTRONOMY CHALLENGE

A simple challenge to find  
10 celestial targets with the  
naked eye and binoculars.

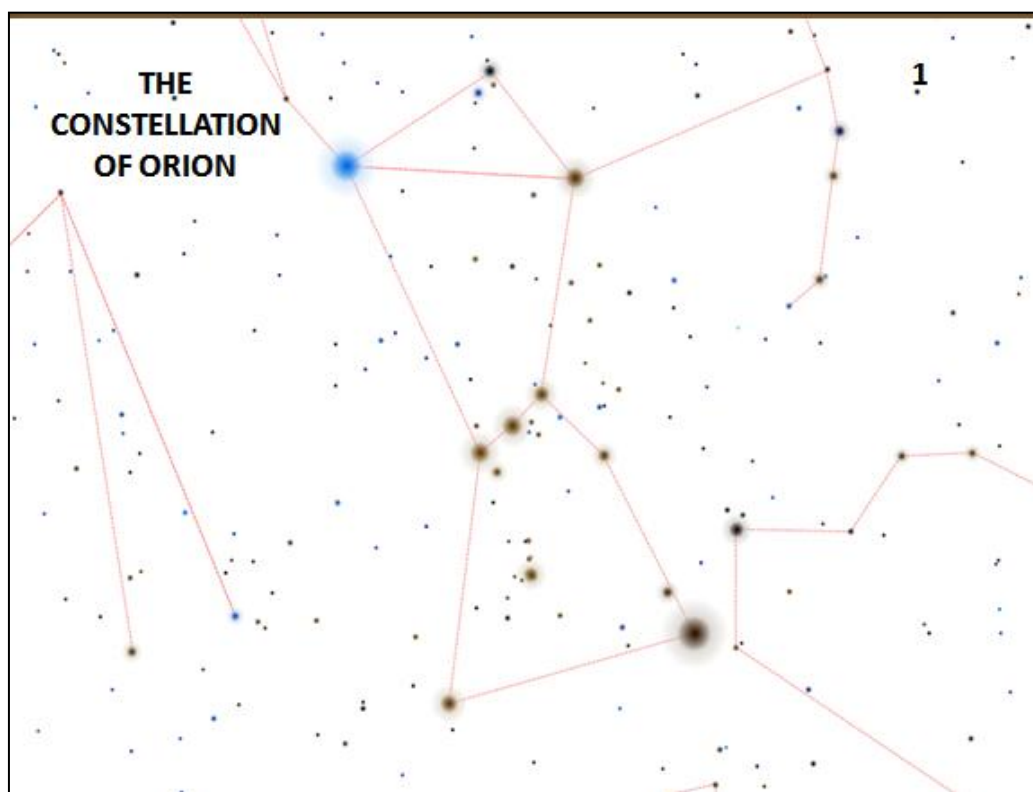
**Len Adam**

Start to learn about objects in the night sky by locating the 10 targets detailed in this document. They can all be viewed by naked eye or through 7 X 50 binoculars but in some instances may be quite small. If you can find a way to clamp the binoculars by some means it will help with the fainter objects. Leaning the binoculars on a solid object – against a wall or post will help considerably. Do not expect to see Hubble type views – the eye tends to see astronomical objects in monochrome because of low light levels. However the following targets are spectacular in their own way.

You can obtain information using Google – many astronomical objects are detailed in Wikipedia – also some astronomy magazines have web sites that are full of useful information.

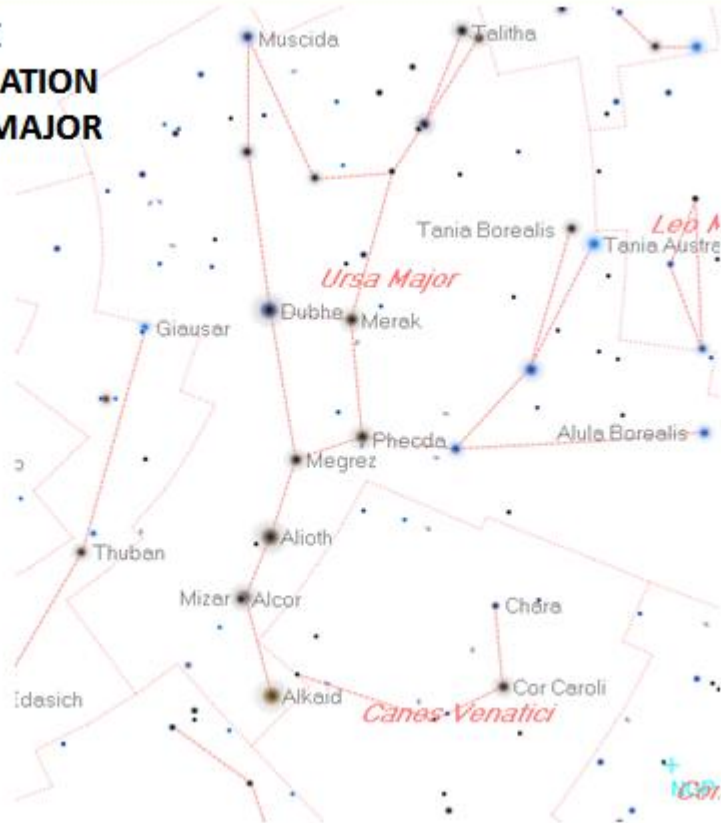
You may wish to sketch the targets e.g. plotting the stars in a constellation and naming them. Astrophotography is also possible but you really need a motor driven mount to counteract the rotation of the earth unless the object is particularly bright when short exposures are possible. Have fun!

Find the following 10 targets



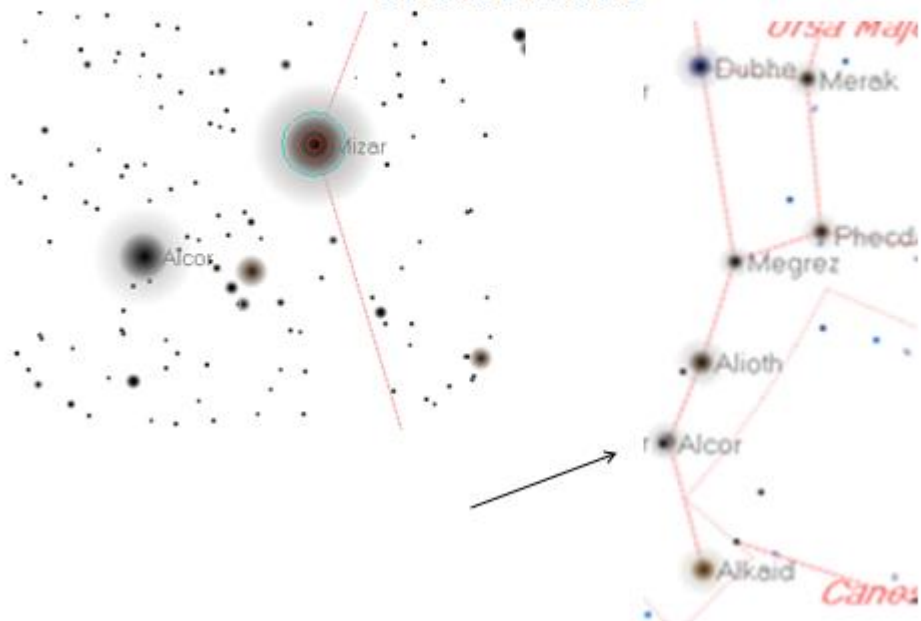
### THE CONSTELLATION OF URSA MAJOR

3



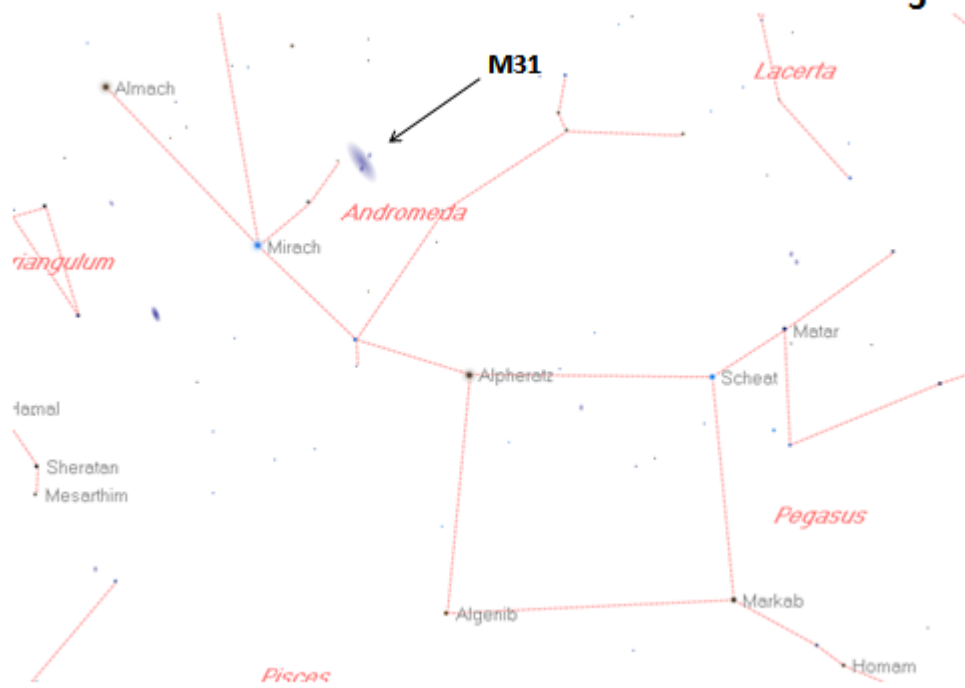
### THE DOUBLE STAR MIZAR /ALCOR IN URSA MAJOR

4



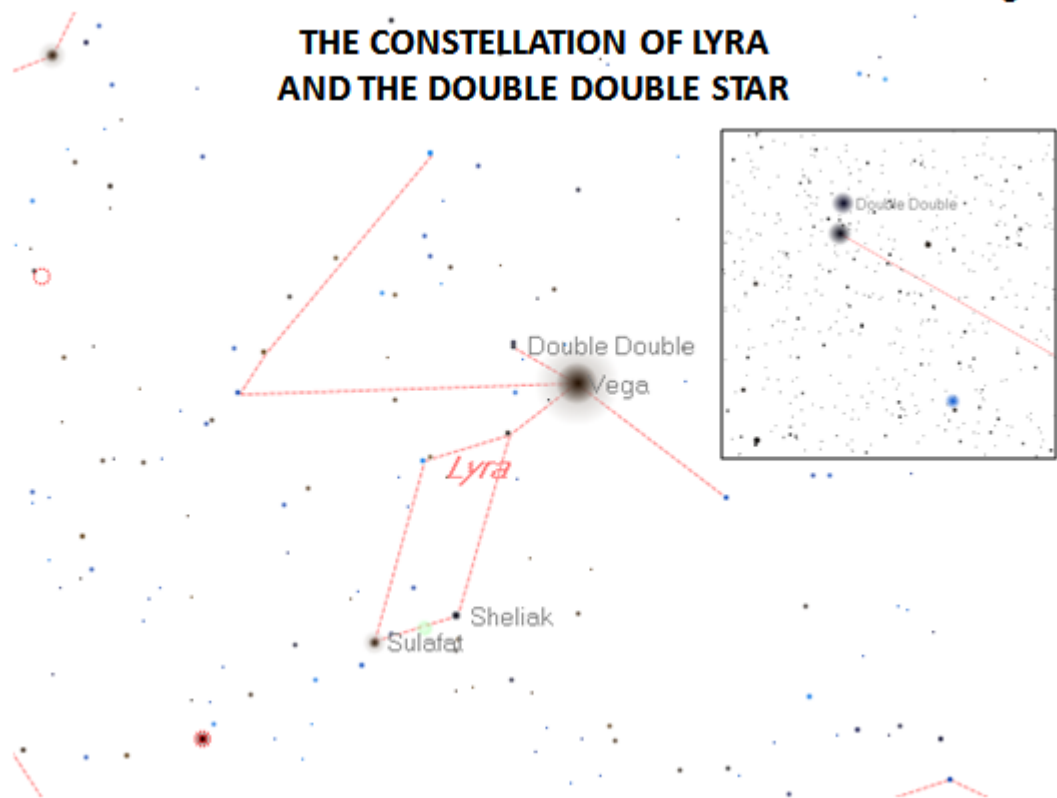
## THE ANDROMEDA GALAXY

5



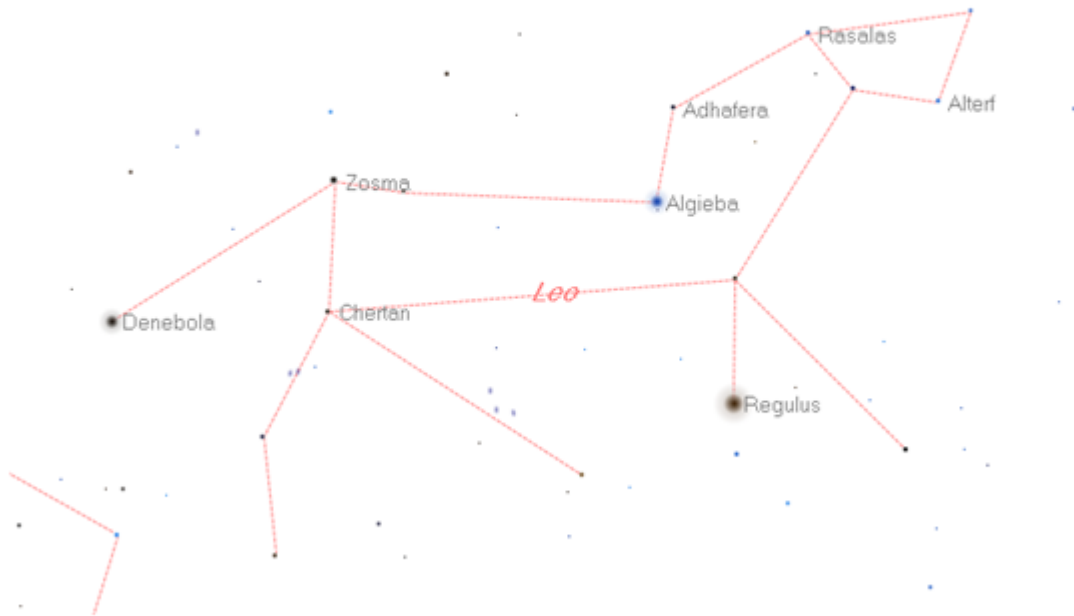
## THE CONSTELLATION OF LYRA AND THE DOUBLE DOUBLE STAR

6



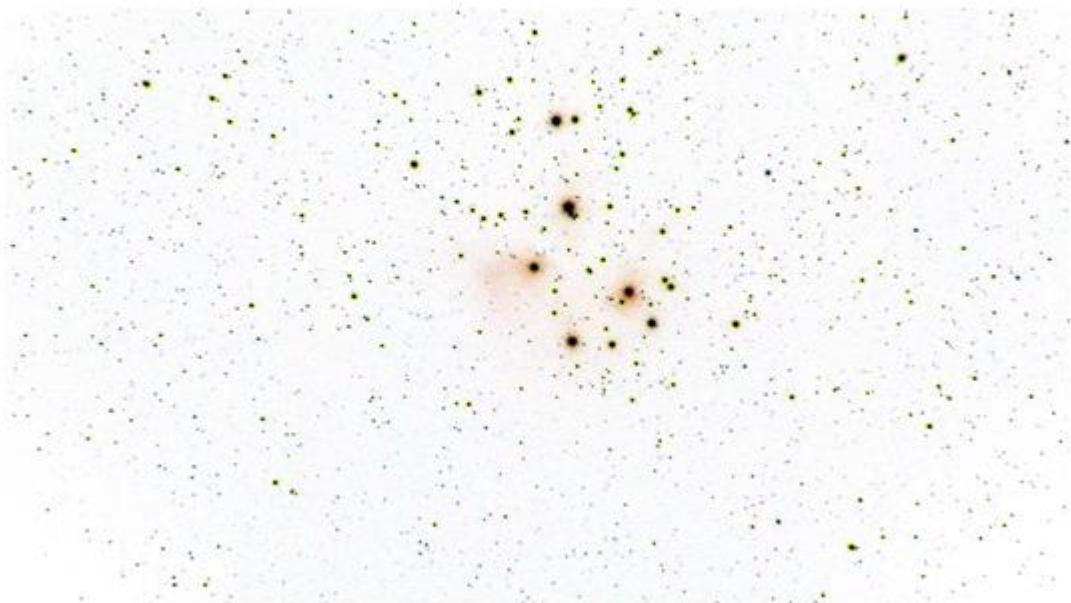
## THE CONSTELLATION OF LEO

7



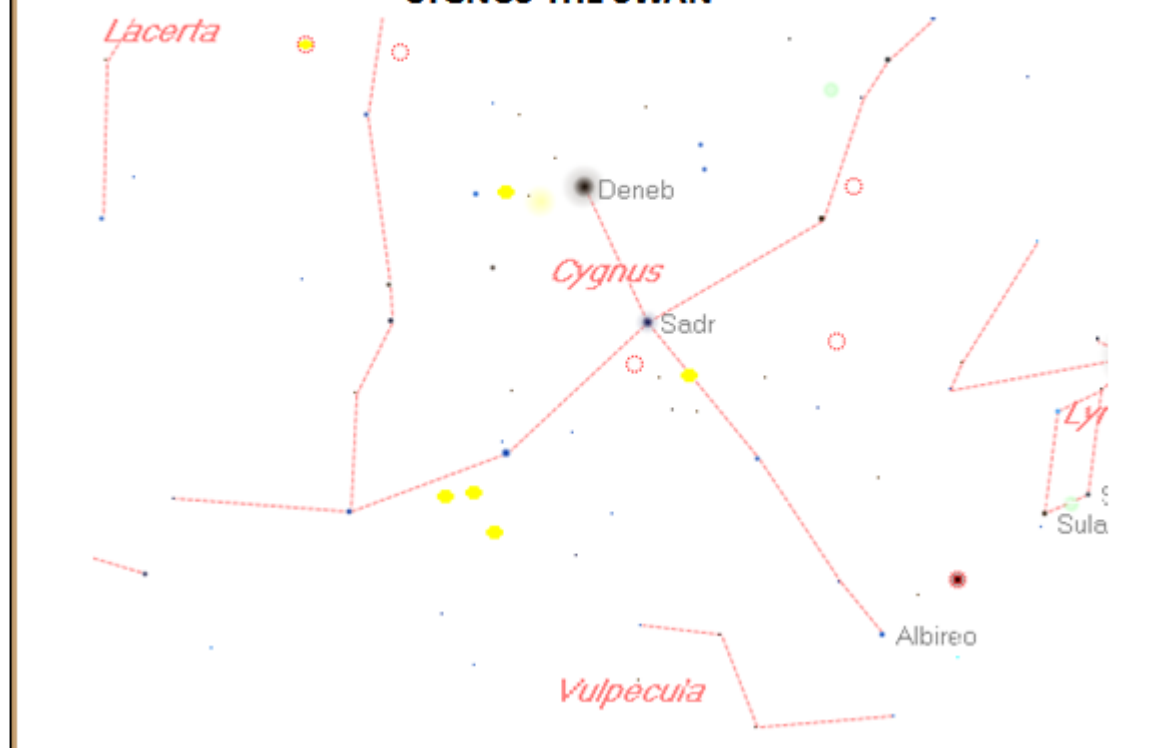
## The Pleiades

8



## THE CONSTELLATION OF CYGNUS THE SWAN

9



## DOUBLE CLUSTER IN PERSEUS

10

