Night Observation Q1 – Little Dolphin

Marking scheme :

On Drawing 1 :

Draw as the view of the constellation Delfinus (Del) through the finder scope.

all 4 stars of the parallelogram	[1]
the 'tail'	[1]
correct scale	[1]
correct shape	[1]
additional field stars	[1]

With an arrow, mark the apparent direction of motion of the stars across the field of view of the finder scope caused by the rotation of the Earth. [2]

Label the stars with the Bayer designations given on the map (α, β, γ, δ and ε). [1]

Also label the brightest of these 5 stars "m_{max}". [1]

Also label the faintest of these 5 stars "m_{min}". [1]

On Drawing 2 :

Draw the view of the Little Dolphin through the larger telescope.

all 4 stars of the parallelogram	[4]
the 'tail'	[1]
correct scale	[1]
correct shape	[1]
additional field stars	[1]

With an arrow, mark the apparent direction of motion of the stars across the field of view of the finder scope caused by the rotation of the Earth. [2]

Label the stars of the Little Dolphin α′, β′, γ′, δ′ and ε′ such that they match the labels of the stars in the constellation Delfinus as given on the map. [3]

Label the brightest of these stars "m_{max}". [2]

Total [25]