**Supervisor Interaction:**

The students will have started to research the topic on the Tuesday afternoon and should have some basic knowledge of the subject, as well as what is expected of them through the week (report, presentation behaviour etc.).

First Meeting: **Wednesday 09.40am** – introduce the project along with yourself to the student.

Collect the report: **Thursday 4.00-4.30pm** – students are to hand in their reports to you, there must be no extensions - all reports must be collected by the end of Thursday.

Mark the reports: Please make sure that you mark all of the group reports (according to the mark schemes provided) by **2.00pm on Friday** so that we can collate the results before the oral presentations.

Mark the presentations: **Friday 2.45-4.00pm** Please come along promptly for the groups presentations on Friday, which we will all be marking as we go along (again the mark scheme will be provided).

Other visits: We ask that you please also check in on the students at least twice a day on the Wednesday and Thursday to ensure that the group are making progress and going down the right track.

Please note that Martin and Stacey will be around all week, if there are any issues with the groups please feel free to approach us with anything – or let us know if you are unable to check in on your group etc.

Galaxies CMDs:

The students have access to a sample of galaxies from the LT, and are to use NSO software, LT Image (which they will have been trained to use), or equivalent, to measure the brightness of the galaxies in two bands (g and r) and plot Colour-Magnitude Diagram(s) to investigate the data. They have a list of the galaxies and their approximate distances, in order to calculate (uncalibrated) absolute magnitudes.

The data has been selected to produce somewhat sensible results (since they have a small sample size), so the students should find, at least, a red sequence. They should also be encouraged to classify the galaxies in order to discuss what types are found where, and could create their own Hubble Tuning Fork if they have time.

During the 3 days they must also complete a report based on their analysis and a presentation (in powerpoint or equivalent). These must be completed by the end of Thursday and should include an introduction, outline of their project, outline of their results and conclusions – try to ensure they cover the following information: What can galaxy Colour-Magnitude diagrams tell us? What features do they contain, and do the features correlate with galaxy type? Does the CMD you’ve created look like you expect? What could improve it? Why might galaxies appear in certain places on the diagram? (i.e. why might an irregular galaxy be very bright and blue?)