

A level Physics Transition Work June - July 2020

- Please **complete the weekly tasks** outlined below in order to complete this free Open University course “Astronomy with online telescopes”.
<https://www.open.edu/openlearn/science-maths-technology/astronomy/astronomy-online-telescope/content-section-overview?active-tab=description-tab>
- You will need to **create a free account** before starting the course.
- The **weekly tasks take around 3 hours** to complete. Each week has specific tasks to do with appropriate outcomes and criteria to meet. There is also a mini assessment on each week’s tasks.
- **You will need to do the first week’s learning in the half-term break in order to finish before the end of term.**
- Ensure that you **join the Google Classroom** and **attend the regular Physics Meet** sessions with Mr Davenport for further guidance, information and discussion. Your progress will be checked each week.
- Please keep all work created in a folder to present in the first lesson in September 2020. This folder can be kept electronically.
Save the electronic certificate that you will earn by completing the course.

AQA A Level Physics (7408) Spec ref. 3.9	Google Classroom code: 3qaikwk	Google Meet code: (will be published on the classroom feed prior to each session)
Weekly Tasks	Astronomy topic	Resources
25/05/20	1. The night sky	https://www.open.edu/openlearn/ocw/mod/oucontent/view.php?id=74591
01/06/20	2. Telescopes and visual observing	https://www.open.edu/openlearn/ocw/mod/oucontent/view.php?id=74592
08/06/20	3. Stellar magnitudes	https://www.open.edu/openlearn/ocw/mod/oucontent/view.php?id=74593
15/06/20	4. Imaging Messier objects with COAST	https://www.open.edu/openlearn/ocw/mod/oucontent/view.php?id=74595
22/06/20	5. The Sun and the stars	https://www.open.edu/openlearn/ocw/mod/oucontent/view.php?id=76151
29/06/20	6. Classifying the stars	https://www.open.edu/openlearn/ocw/mod/oucontent/view.php?id=76152
06/07/20	7. Variable stars	https://www.open.edu/openlearn/ocw/mod/oucontent/view.php?id=76344
13/07/20	8. Building a light curve	https://www.open.edu/openlearn/ocw/mod/oucontent/view.php?id=76564

Fortnightly Meet Date & time	Teacher	Topics
01/06/20 P1	J. Davenport	To discuss week 1 learning and introduction
05/06/20 P4	J. Davenport	To discuss week 2 learning
12/06/20 P5	J. Davenport	To discuss week 3 learning
19/06/20 P4	J. Davenport	To discuss week 4 learning
26/06/20 P5	J. Davenport	To discuss week 5 learning
03/07/20 P4	J. Davenport	To discuss week 6 learning
10/07/20 P5	J. Davenport	To discuss week 7 learning
17/07/20 P4	J. Davenport	To discuss week 8 learning and completion

General resources and suggested reading:

Specification:

<https://filestore.aqa.org.uk/resources/physics/specifications/AQA-7407-7408-SP-2015.PDF>

Preferred websites:

<https://www.open.edu/openlearn/science-maths-technology/astronomy/astronomy-online-telescope/content-section-overview?active-tab=description-tab>

https://resources.collins.co.uk/Wesbite%20images/AQA/Physics/sb2module/9780007597642_Astrophysics.pdf

Possible additional interest reading:

Introductory Astronomy – Keith Holliday, Wiley 1999

Collins Stargazing: Beginners guide to astronomy - Royal Observatory Greenwich, 2016

Documentaries you can also watch:

<https://www.bbc.co.uk/programmes/m000hjpw>

<https://www.bbc.co.uk/programmes/p03bhszp>

Ask Mr Davenport for access to the shared Google Drive for A level physics resources for the WHOLE course, not just the Astrophysics topic.