**Independent Home Learning**

Whilst you are unable to be learning in school, please complete the following online lessons provided by the Oak National Academy to all you to continue learning and making progress, provided you are well enough to do so. Completed work can be emailed to your class teacher for feedback.

If can complete your ICT coursework which you have started in class, designing a user interface system, please do so, if not complete work below.

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| Year Group: | 9 | Subject | IT |

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| Lesson | Description and link |
| 1 | **Delving into data science**  In this lesson you will be introduced to data science, and in particular, how visualising data can help us to provide insights that may not be as obvious when looking at raw data.  <https://classroom.thenational.academy/lessons/delving-into-data-science-6rtp8r> |
| 2 | **Global data**  In this lesson, we will explore how ever-improving advances in technology have made it more feasible to collect, store, and analyse much larger datasets than previously. We will then look at global data sets, make predictions, and use visualisations of the global data to prove or disprove your predictions.  <https://classroom.thenational.academy/lessons/global-data-6cvkgr> |
| 3 | **Statistical state of mind**  In this lesson, we will learn about the investigative cycle PPDAC (problem, plan, data, analyse, conclusion) and apply part of this cycle to a data set about roller coasters.  <https://classroom.thenational.academy/lessons/statistical-state-of-mind-6wr3gc> |
| 4 | **Data for action**  In this lesson you will investigate a problem that you can solve yourself. You'll take your first steps towards this by working through the earlier stages of the PPDAC investigative cycle.  <https://classroom.thenational.academy/lessons/data-for-action-64vk0e> |
| 5 | **Clean it up**  In this lesson you will continue to develop your understanding of the investigative cycle by working through the data and analysis steps of the PPDAC cycle. You'll upload and cleanse your data before uploading it into the CODAP platform to start your analysis.  <https://classroom.thenational.academy/lessons/clean-it-up-cmvp4t> |
| 6 | **Make a change**  What change can you make in your local area? In this lesson you will complete work through the final steps of the PPDAC cycle (analysis and conclusions) and by the end of the lesson you will have used data to make a case for positive change where you live.  <https://classroom.thenational.academy/lessons/make-a-change-6mrkgc> |

Equipment required:

* Laptop;
* Pen, pencil and paper;
* Calculator;
* Dictionary;
* Highlighter.

If you have any questions, please email your class teacher.

**IT & Computing Teachers:**

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