**St Mary’s Catholic School**

**Year 11 into Year 12 Bridging Work**

**Recommended Reading List for Year 12**

**CHEMISTRY**

To prepare you for your Sixth Form studies, the reading list below includes a variety of books, articles, and other material to read and use, to broaden your knowledge, and to enrich your understanding of Chemistry.

Take some time over the summer to complete the reading below, using the tasks to help structure your reading.

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| --- | --- | --- | --- |
| **Read / Watch** | **Link if this is available online** | **Tasks to complete** | **Any additional notes** |
| Read the article on Mass Spectrometry | <https://www.chemistryworld.com/everyday-chemistry/behind-the-revolution-mass-spectrometry/4011363.article> | Summarise the article into 5 key paragraphs | You will study mass spectrometry towards the start of your course |
| Read the Chemistry World articles | <https://www.chemistryworld.com/> | Choose an article and give a summary to a friend or family member | It is free to register and therefore gain access to more articles |
| Listen to the podcast on the elements | <https://podcasts.google.com/feed/aHR0cDovL2NoZW1pc3RyeWluaXRzZWxlbWVudC5saWJzeW4uY29tL3Jzcw==> | Listen to the articles at your pleasure | More podcasts are available at <https://www.chemistryworld.com/podcasts> |
| Explore the website (OCR only) | <https://chemrevise.org/2014/06/08/chemistry-summer-reading/> | Start to read through the notes and write down questions on anything you don’t understand. Search for the answers on the internet or in your textbooks. | This will be a very useful website throughout your A Level course. |
| Watch the various interactive videos on the Elements | <https://www.open.edu/openlearn/science-maths-technology/science/chemistry/elements-the-periodic-table?LKCAMPAIGN=Google_grant_periodic&MEDIA=olexplore&gclid=Cj0KEQiA4qSzBRCq1-iLhZ6Vsc0BEiQA1qt-zseng4snkWJATgeJjv_yHaaIHDg5fCSs1ouSSocg2FsaAqkI8P8HAQ> | Write a short essay on the impact of chemical elements on our bodies, our world, and how they changed the course of history. |  |
| Explore the videos on the elements | <http://www.periodicvideos.com/> | Explore and enjoy these videos at your pleasure. |  |
| Watch the video on climate change | <https://www.ted.com/talks/rachel_pike_the_science_behind_a_climate_headline> | Make a list of facts about the molecule isoprene |  |
| Watch the TED talk on The Mole | <https://ed.ted.com/lessons/daniel-dulek-how-big-is-a-mole-not-the-animal-the-other-one> | Summarise the video into personal, key notes. |  |
| Watch the documentaries | <https://www.bbc.co.uk/iplayer/episodes/b00qbq7f/chemistry-a-volatile-history> | Choose an element to research further.  Write a short story about its discovery. |  |
| Have a look at this website to give you an insight into the application of chemistry to our lives and also to realise some of the career pathways that chemistry supports | <https://edu.rsc.org/resources/collections/faces-of-chemistry> | After going through the links which interest you make some notes on their applications in society. |  |