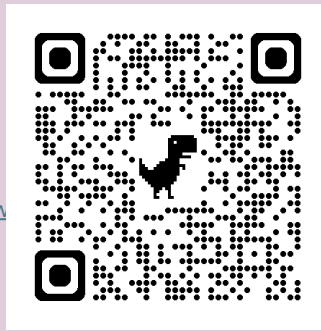

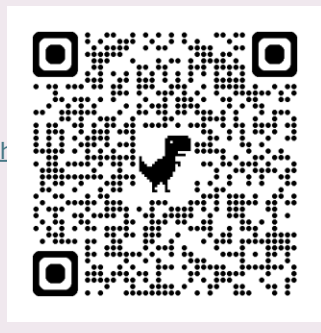
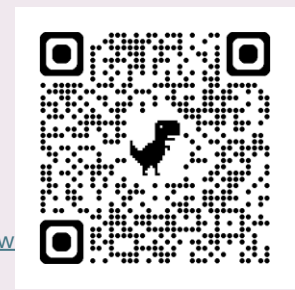
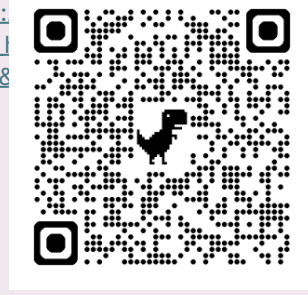



Year 10 Biology **Task**

<p>Autumn term</p>	<p>Visit the library and use New Scientist or Biological Science Review to research an area of Biology. Create a short summary of an article for your teacher to read.</p>	<p>Watch and create a review of the Netflix Documentaries: Pandemic Bill Nye: Science Guy Planet Earth Life</p>  <p>https://www.netflix.com/title/800148</p>	<p>Read and Write a review of one of the following books and submit to your teacher.</p> <ul style="list-style-type: none"> • The Tale of the Dueling Neurosurgeons, by Sam Kean. • The Brain: The Story of You" by David Eagleman • The Body, A guide for occupants: Bill Bryson 	<p>Write a compelling argument for the use of vaccines</p> <p>https://www.educationprotection.com/submit</p> 
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<p>Spring term</p>	<p>Watch and make Cornell notes on TEDtalk: The potential of regenerative medicine</p> <p>https://www.ted.com/talks/alan_russell_the_potential_of_regenerative_medicine?subtitle=en&trigger=30s</p> 	<p>Watch the following lecture and summarise the use of fullerenes to overcome antibiotic resistance using your understanding of bonding and how antibiotics</p>  <p>https://www.youtube.com/watch?v=HLObcEPZs</p>	<p>Create a story board for the TEDtalk that explains how your bones make blood</p> <p>https://www.youtube.com/watch?v=dy_subtitle=en&trigger=30s</p> 	<p>Sign up to a competition of your choice on this website</p> <p>https://www.mindsunderground.com/top-choice-competitions</p> 
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<p>Summer term</p>	<p>Printing new organs TEDtalk: Printing a human kidney</p> <p>https://www.ted.com/talks/anthony_atala_printing_a_human_kidney?subtitle=en&trigger=30s</p> 	<p>Research and create a story board to explain how monoclonal antibodies are used to treat cancer.</p>  <p>https://www.youtube.com/watch?v=rqz8</p>	<p>Sign up to the Y0 Biology Olympiad challenge please email lbaxter@swanshurst.org between March-April 2025 😊</p>	<p>Imagine you are a journalist in the 1960s reporting on the Thalidomide crisis. Write an article (250-500 words) that would inform and engage the public about the crisis.</p> <p>https://www.youtube.com/watch?v=4wIBCoxuOJ0</p> 
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**YR 10
Chemistry**

Task

Autumn
term

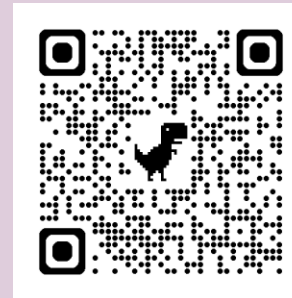
Listen to a podcast and write cornell notes based on it.



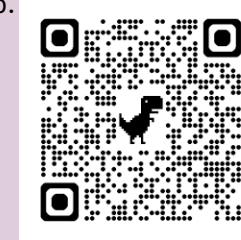
Ted Talk on Chemistry of Smartphones
Create a lesson resource for your chemistry teacher.



Make a 'silver' egg



Choose several ordinary items and explain what they are made of and how the bonding of that material helps the object to do its job.



Spring term

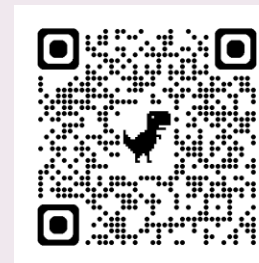
Make cornell notes based on this podcast



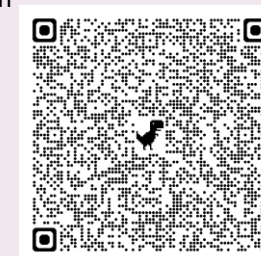
Carry out the reaction of Cs with water, record what happens.



Sign up to a competition write a story based on a chemistry topic you have done.



Complete essay competition is an example of a scientific essay competition

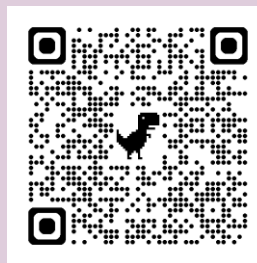


Summer
term

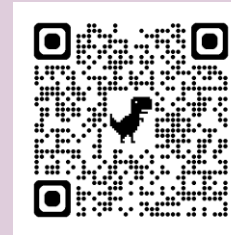
[Make a article based on the science museum materials section](#)



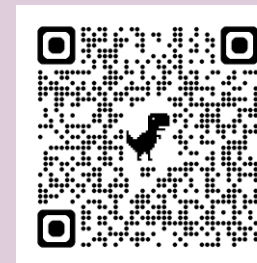
Ted Talk – Create Cornell notes based on this talk



Oxford University Chemistry Podcasts –
Write a short summary on a lecture



Research: Batteries Should Not Burst Into Flames



Year 10 Physics

Task

Autumn term

Take part in a physics essay competition



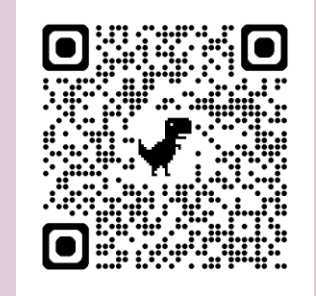
Complete the free physics course with a University professor



Write a short summary for physics teacher on ocean physics



Finish the Physics course



Spring term

Research how astronomers discover and study exoplanets, focusing on methods such as the transit method and radial velocity method.



Ted Talk – Research the physics of surfing



Make a lesson resource based on hiding Objects from Heat Sensing Cameras



Write a science fiction story set in a world where quantum mechanics visibly affects everyday life. Include phenomena like superposition and entanglement.



Summer term

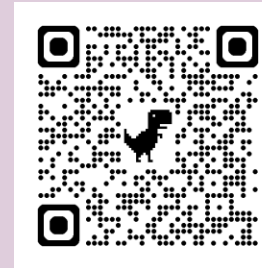
Attend FREE Physics lectures at the Institute of Physics



Research Black Holes make a poster



Research Faraday's Law of Induction and its application in generating electricity.



Develop a survival guide for extreme temperatures (e.g., how to stay warm in the Arctic). Explain the thermal physics behind your strategies.

