| Describe how to draw error bars on a graph. <br> 10 POINTS | What's the difference between a systematic and a random error? <br> 10 POINTS | Choose a required practical and list the independent, dependent and control variables. | Condense a topic onto one revision card. <br> 10 POINTS | Choose a piece of apparatus and write a set of instructions on how to use it accurately. <br> 10 POINTS |
| :---: | :---: | :---: | :---: | :---: |
| Choose a required practical and sketch a graph of the expected results <br> 10 POINTS | Find a science-based news story published in the last seven days that you find interesting. Write a summary of it. 10 POINTS | Investigate 10 potential science careers which make use of your A Level choices. <br> 10 POINTS | Pick a profession or career and try and list as many ways science might be used in that job. <br> 10 POINTS | Choose a controversial topic in science and explain the ethical and moral issues surrounding it. <br> 10 POINTS |
| Discuss how you would determine if an experiment gives valid results. <br> 10 POINTS | Describe how to convert a number into standard form. <br> 10 POINTS | Describe how to convert <br> between a fraction and a <br> percentage. Choose a <br> fraction and show your <br> method. <br> 10 POINTS | Write a list of all the equations you could be expected to recall and apply. 10 POINTS | Metres are a unit of length. Choose a number and convert it from metres to millimetres, micrometres and nanometres. 10 POINTS |
| Choose an article from http://www.sciencedaily.com Think of 5 questions you have, after reading the article. <br> 10 POINTS | Research the question "What is science?". <br> 10 POINTS | Write a set of rules to draw a bar graph. <br> 10 POINTS | Metres are a unit of length. Choose a number and convert it from metres to millimetres, micrometres and nanometres. 10 POINTS | Audit you learning this year. Give each topic a mark out of 10 for your confidence and create a list of topics on which you need to improve. 10 POINTS |
| Choose a required practical and prepare a results table. <br> 10 POINTS | Evaluate your learning this year. What strategies are helpful to you. How could you improve further next year? <br> 10 POINTS | What does the term <br> resolution mean? Give <br> examples of measuring <br> instruments and their <br> resolutions. 10 POINTS | Give definitions of the following terms: hazard, risk and control measure. <br> 10 POINTS | What does proportional mean? Sketch a graph showing a proportional relationship. <br> 10 POINTS |
| Use the idea of throwing darts at a dartboard to explain the difference between accuracy and precision. 10 POINTS | Describe how to calculate a percentage uncertainty. <br> 10 POINTS | Watch the following video: <br> https://www.youtube.com/watc <br> $h ? v=5 E g \quad$ Gzz3hXY Summarise <br> how to read a scientific paper. <br> 10 POINTS | Write a cover letter for a job in science. Explain which skills you have that would make you perfect for the job. 10 POINTS | Choose a required practical, list the potential sources of inaccuracy and describe how to make the results more accurate. <br> 10 POINTS |
| Choose a topic and write 10 multiple choice questions on it. <br> 10 POINTS | Write as much as you can on a chosen topic. Review your notes, then add to your writing. <br> 10 POINTS | Choose an article from http://www.sciencedaily.com Choose three scientific concepts in the story that you are unfamiliar with. Find out what they mean. <br> 10 POINTS | Give definitions of the following terms: range, resolution and anomaly. <br> 10 POINTS | What does the term repeatable mean? <br> 10 POINTS |
| Write a multiple choice quiz that tests a student's understanding of mathematical skills. 10 POINTS | Explain why standard form is useful. <br> 10 POINTS | Create an A4 poster explaining a topic of your choice. <br> 10 POINTS | Research how a scientific paper is written. <br> 10 POINTS | Choose an article from http://www.sciencedaily.com that interests you and summarise the key findings. 10 POINTS |
| Evaluate the need for a scientist to have good communication skills. | Explain the meaning of the terms parallax error and zero error using examples. <br> 10 POINTS | Describe how to convert between a percentage and a fraction. Chose a percentage and show your method <br> 10 POINTS | Explain why it is important for scientists to share their data. <br> 10 POINTS | What does the term reproducible mean? <br> 10 POINTS |
| What does inversely proportional mean? Sketch a graph showing an inversely proportional relationship. 10 POINTS | Create a board game based on a topic from this term. It should test skills and knowledge. <br> 10 POINTS | Write a multiple choice quiz that tests a student's understanding of a required practical. <br> 10 POINTS | Choose a required practical. <br> Evaluate and suggest improvements to the method. <br> 10 POINTS | Choose an article from http://www.sciencedaily.com Design an investigation to further your understanding of the topics involved. 10 POINTS |


| Design a board game using maths questions as part of the game. <br> 10 POINTS | Choose five pieces of apparatus that measure volume and discuss the resolution of each. 10 POINTS | Write an end of topic test for someone in your class on your most recent topic. |
| :---: | :---: | :---: |
| Design a new enquiry investigating a question of your choice. <br> 10 POINTS | Give definitions of the following terms: dependent, independent and control variable. <br> 10 POINTS | What is an anomaly? How would you identify an anomalous result in a table and in a graph? <br> 10 POINTS |
| Why are indices important? Describe where indices are used in your specification. <br> 10 POINTS | Choose an article from https://www.newscientist.co $\mathrm{m} /$ section/news/ Think of 5 questions you have after reading the article. 10 POINTS | Choose a topic and condense it into Cornell notes. <br> 10 POINTS |
| Write a list of revision techniques that help you learn. <br> 10 POINTS | Describe the method for drawing a line of best fit. <br> 10 POINTS | Choose 5 equations and learn them. <br> 10 POINTS |
| Choose an article from https://www.newscientist.co $\mathrm{m} / \mathrm{section} / \mathrm{news} /$ that interests you and summarise the key findings. 10 POINTS | Choose a topic and design an investigation to answer a question you have about the topic. <br> 10 POINTS | Write a list of all the equations you will be given and expected to apply in an exam. <br> 10 POINTS |
| What's the difference between a random uncertainty and a systemic uncertainty. 10 POINTS | Describe how to convert a number with many decimal places into standard form. <br> 10 POINTS | Choose an article from https://www.newscientist.com/ section/news/ Design an investigation to further your understanding of the topics involved. 10 POINTS |
| Chose a topic and design a crossword, including the clues for it. <br> 10 POINTS | Describe how to convert between a ratio and a percentage. Choose a ratio and show your method. 10 POINTS | Choose an article from https://www.newscientist.com/ section/news Find three pieces of additional information on a key word mentioned in the article. 10 POINTS |
| What does the expression <br> "validity of experimental design" mean? <br> 10 POINTS | What does directly proportional mean? Sketch a graph showing a directly proportional relationship. 10 POINTS | Create a Kahoot quiz for a topic you have studied in science this year. <br> 10 POINTS |
| Choose a required practical and carry out a risk assessment identifying the hazards, risks and control measures. 10 POINTS | Describe how to convert a large number into standard form. <br> 10 POINTS | Evaluate the need for a scientist to have good mathematical understanding and skills. <br> 10 POINTS |
| Explain the difference between a measurement error and a systematic error. <br> 10 POINTS | Research a career that you are interested in. What scientific skills or qualifications are required? 10 POINTS | Identify an example of a 'redacted' journal paper. Explain why it was redacted. |



