Level 3 Medical Science WJEC

Year 11 into 12 Transition Work

Research:

You will study the human body, and health and disease issues during this course. To get you interested in current Health issues, I would like you to research around a health-related news story. Go to the websites <https://www.bbc.co.uk/news/health> or <https://www.msdmanuals.com/en-gb/home> and have read a few articles. Find an article that you find really interesting, and want to understand more about.

Task:

Give a summary of the article. Explain why it interests you and explain how it links to any of the Biology topics studied at GCSE.

Then, research the topic further, using at least TWO additional sources and produce a written report of around 500 words.

The report should:

* include detailed descriptions & explanations
* include relevant diagrams or images
* have good grammar & spelling
* include a list of all the sources of information you have used
* not be copied & pasted from the sources

Maths Task:

Science often requires you to use some basic maths skills, and this course is no different. Practice the maths skills you have from GCSE by answering the following questions!

1. Plot the following data for mortality of newborn babies related to birth mass on an appropriate graph.

|  |  |
| --- | --- |
| Birth mass (kg) | Mortality (%) |
| 1.0 | 80.5 |
| 1.5 | 31.2 |
| 2.0 | 11.8 |
| 2.5 | 3.9 |
| 3.0 | 3.0 |
| 3.5 | 1.9 |
| 4.0 | 2.9 |
| 4.5 | 7.2 |
| 5.0 | 14.9 |

1. Calculate the percentage for:
2. 25 out 375
3. 0.2 out of 3
4. 120 out of 25
5. Calculate the mean, mode and median for the following lists of data:
6. 1, 3, 3, 6
7. 0.01, 0.5, 0.5, 0.85
8. 1.7, 54, 113, 227
9. Calculate the Body Mass Index (BMI) using the equation

$$BMI=\frac{mass (kg)}{height ² (m)}$$

1. Height 1.75m Mass 59.67kg
2. Mass 63.92kg Height 1.65m
3. Height 1.55m Mass 58.80kg

Please complete the tasks for your first lesson in September.

If you would like to look in more detail at the Medical Science course, you could have a look at the Medical Science specification <https://www.wjec.co.uk/media/pocixxug/wjec-applied-certificate-in-medical-science-spec-from-2016-e-05-10-22.pdf>