**Assessed Writing Task 2**

**Problem-Solution Text**

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| Researchers have been trying to develop artificial muscles for medical purposes and have recently developed a way to re-create muscle action using a type of artificial silk. Here is a set of instructions for the preparation of the material, followed by information on how the material simulates actual muscle. Write a problem-solution text that uses the information as part of the solution. Use your imagination to create a situation for the problem that could be solved through the use of an artificial muscle. **Be sure to include all the required parts of a problem solution text** (i.e. situation/problem, solution, evaluation) and to present the process in an appropriate manner, using passive voice and sequential connectors. Show cause-and-effect relationships where appropriate.   1. Cook the Orlon. Orlon is a form of artificial silk. 2. Boil the Orlon until it turns into a liquid rubbery substance. 3. Pour the solution onto Plexiglass to form a thin film. 4. Vacuum away excess water from the film. Allow the film to dry. 5. Cut the dried film into 2 centimeter-wide strips. Bake it in a 90 degree centigrade oven. The material is ready for use after it has been baked. 6. Prepared Orlon has a structure similar to that of human muscle fibre and is naturally negatively charged with electricity. 7. If you apply acid to the material, you introduce a positive charge and you cause the ions to attract. The attraction contracts the material like a muscle. 8. If you apply a base material, you introduce a negative charge, the ions repel, and the muscle expands. |

**Language**

Your text should include the following:

* A definition
* A description of a process **using passive voice and sequential connectors**
* Language to signal cause and effect
* Some evaluative language to signal your ‘stance’ towards the topic
* An indirect question
* A range of cohesive devices
* Appropriate use of paragraphs
* Appropriate academic phraseology / style

**Length**

Your text should be between 300 – 400 words. Three paragraphs are recommended.

**Further details on submission will be given in class.**

**Deadline: 20th June @12 noon**