**Science 1.9 AS 90948** Demonstrate understanding of biological ideas relating to genetic variation



Writing Excellence answers to **inheritable or non-inheritable variation** questions

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| **inheritable or non-inheritable variation QUESTION** | |
| **Question:** The Venus flytrap plants come in a number of different types, such as  Related image  the “B-52” with a red leaf. A teacher brought two identical plants to class and put  them in different parts of the classroom. The Venus flytrap put near a window grew  short leaves and the Venus flytrap in the shade grew long leaves. Colour variation in  the leaves of the Venus flytraps can be passed on to a plant’s offspring, but the  different leaf length cannot.  **Explain why.** In your answer you should:  •define inheritable and non-inheritable variation  •explain what causes inheritable and non-inheritable variations. | |
| **ANSWER** | |
| 1. define the term **inheritable variation** |  |
| 2. Explain what **effect** inheritable variation has |  |
| 3. define the term **non-inheritable variation** |  |
| 4. Explain what **effect** non-inheritable variation has |  |
| 5. link the **phenotype** related to **inherited variation** (give example from question) |  |
| 6. link the **phenotype** related to **non-inherited variation** (give example from question) |  |
| 7. complete the final statement | **Genetics determines the characteristics you will be born with and this is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, but environment then affects these characteristics once you are born and this is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.** |

NOTE: The white column is how your answer would appear on your test paper so make sure you **write out complete sentences**. The grey area is just to help you structure your answer and would not appear in the question.