**3 A/B Human Biology**

**Flexibility Investigation**

**The Question……**

Growing older generally has an effect on a person’s flexibility. What effect does age generally have on an individuals flexibility?

**Hypothesis: (WRITE THIS DOWN NOW!!!)**

**Sample groups required:**

Subjects between (and including) the ages 10 to 20.

Subjects between (and including) the ages 21 and 50.

**Requirements.**

* You will be expected to plan, carry out and write up a scientific report on this topic.
* You will be collating your data with all other students studying 3 A/B Human Biology this year.
* Each student will hand in their own final write up.
* The final report you hand in must contain all the **steps** required for scientific investigation.
* An introductory paragraph should be given explaining what flexibility is and the possible implications on the loss of flexibility.
* All variables must be stated.
* All sample groups must be described.
* Any methods used to reduce error must also be stated.
* A raw data table and a suitable graph(s) of results must also be included.
* A discussion of your results, including some discussion on possible outlier and anomalous results.
* A conclusion that gives an answer to the stated question.

**Time**

You will be given one period in class to plan the investigation. You will be given one period in class to collect some results and part of another class to collate all results.

You will be given one week to complete the write up of the investigation in your own time.

**Marking Rubric**

|  |  |  |
| --- | --- | --- |
| **Aspect** | **Possible Score** | **Student mark** |
| Introduction | 2 |  |
| Hypothesis | 1 |  |
| Independent variable | 1 |  |
| Dependent variable | 1 |  |
| Controlled variables | 2 |  |
| Test group stated | 1 |  |
| Results  Raw data table | 4 |  |
| Graph of results | 7 |  |
| conclusion | 1 |  |
| Discussion/review | 10 |  |
| Total | 30 |  |