Sticky Tape Practical

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Due date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

The force that holds sticking tape to a surface is called adhesive force. That is why sticking tape is often called adhesive tape.

What do you need to do? Test 3 types of sticking tape to see which as the greatest adhesive force. You will need to write up the investigation using all the correct steps listed on the next page.

Complete the planning table before you begin.

Construct a table for raw data before you begin.

Have someone from your group show the teacher your planning sheet before you begin.

You will be given two lessons in class to work on the experiment and 1 week at home to do the write up.

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| Method  Make a loop of string.  Measure out 10cm of tape type 1.  Stick the string to the underside of the desk with tape.  Add slotted masses to the loop of string. Keep adding slotted masses until the tape is pulled off of the underside of the desk.  Repeat for the other types of tape. |

Planning table

|  |  |  |
| --- | --- | --- |
| Step in investigation | What you need to write | Statement |
| 1. Aim | What needs to be found out? |  |
| 1. Hypothesis | A prediction of what the results will be. |  |
| 1. Independent variable | The thing that is deliberately changed.  **CAUSE** |  |
| 1. Dependent variable | What happens as a **RESULT** of the independent variable?  It is the change that is measured. |  |
| 1. Controlled variables | All the things that need to be kept the same during the experiment. |  |
| 1. Materials | The list of equipment used. |  |
| 1. Method | Given | Given |
| 1. Results | Data collected during the experiment. | Do a raw data table and a final graph. |
| 1. Discussion | Any trends seen.  Any problems and how your might fix them if the experiment was repeated. | You will complete this after the results have been collected |
| 1. Conclusion | Did the results support the hypothesis? | You will complete this after the results have been collected |

Marking Key

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| --- | --- | --- |
| Step in investigation | Possible mark | Your mark |
| Aim | 1 |  |
| Hypothesis | 2 |  |
| Independent variable | 1 |  |
| Dependent variable | 1 |  |
| Controlled variables | 2 |  |
| Materials | 2 |  |
| Method | Given | Given |
| Results  Raw data table | 4 |  |
| Results graph | 5 |  |
| Discussion  State the trend, one problem and how it could be fixed in the future. | 3 |  |
| Conclusion | 2 |  |
| Total | 23 |  |