**Acid Base Poster Project**!

You must create a poster (use paper or create a digital poster) about acids, bases, the pH scale, physical and chemical changes.

2 Class Periods:

DAY 1: Today is research day. Do not touch a colored pencil or piece of paper until you have the answer/information required below in your note book.

Day 2: poster creation. Project is due 12/5

**Your poster must include**:

Acids (20 points)

1. State the difference between a “strong” and “weak” acid
2. Give 3 examples of strong acids and 3 examples of weak acids
3. Chemical and physical properties of acids
4. Give 2 examples of how you can tell if a substance is acidic

Base (20 points)

1. State the difference between a “strong” and “weak” base
2. Give 3 examples of strong acids and 3 examples of weak base
3. Chemical and physical properties of bases
4. Give 2 examples of how you can tell if a substance is basic

Reactions (6 points)

1. What products do you get when acid and base react?
   1. What is this type of reaction called?
2. Give a real-life example of this type of reaction.
   1. Label the substances that take part in the reaction
   2. Describe the reason for this reaction

Chemical Change (20 points)

1. State a clear explanation of what a chemical change is.
2. Give at least 2 examples of chemical changes.
3. Hand drawn picture or graphic of a substance undergoing a chemical change.

Physical Change (20 points)

1. State a clear explanation of what a physical change is.
2. Give at least 2 examples of physical changes.
3. Hand drawn picture or graphic of a substance undergoing a physical change.

Measurement (15 points)

1. How do you measure the strength of an acid and a base?
2. What is the pH range for Acidic, Basic and Neutral solution?
3. Include a picture of pH scale.

Indicators (7 points)

1. What is an acid/base indicator?
   1. Give 3 examples of substances that act as indicators.
   2. Give 2 examples of common products that can be used as an indicator
2. Why do indicators change color?

Overall Presentation (25 points)

1. Neat and professional
2. All information MUST be written in your own words
3. Your project is yours (plagiarism will result in an automatic ZERO)
4. Creative
5. Spelling and Grammar are correct
6. Turned in by the scheduled deadline

Bibliography (minimum of 3 sources) (15 points)

Attach this page to your poster Total \_\_\_\_\_\_ / 150

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