



Subject: Grade 9 Natural Sciences

Topic: Acids, bases and pH values

Total: 31 Marks

Name: _____

Date: _____

Question 1: Multiple Choice

4 marks

Which of the following is not a characteristic of a base?

- | | |
|----------|-----------------------------|
| A | It has a bitter taste. |
| B | It turns litmus paper blue. |
| C | It feels slippery. |
| D | It has a pH of 7. |
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Question 2: Text Input

3 marks

Using ONE word only, describe the taste of an acid.

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Question 3: True/False

2 marks

If two substances of pH 2 and pH 13 were to touch your skin, nothing will happen because these substances are weak.

TRUE	FALSE
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Question 4: Text Input

3 marks

Give one word for the measure, on a scale from 0 to 14, that tells us how acidic or basic a substance is.

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Question 5: True/False

2 marks

All acids are dangerous.

TRUE**FALSE****Question 6: Text Input**

3 marks

If phenolphthalein is placed in vinegar, what colour would you expect it to change to?

Type one word only.

Question 7: Multiple Choice

4 marks

Which of the following will have a pH >7?

A - orange juice

B - Handy Andy

C - soap

D - vinegar

A

A and B

B

B and C

C

C and D

D

A and D

Question 8: Please Fill In The Blanks

4 marks

Bicarbonate of soda will change the colour of a universal indicator to (1) because it has a pH of (2) .

Possible Answers: orange | blue | <7 | 7 | >7

1**2**

Question 9: Please Fill In The Blanks

4 marks

Substances that are neither acidic nor basic are called (1) . A base that can dissolve in water is called (2) .

Possible Answers: neutral | indicators | a basic | an alkali

1	
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2	
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Question 10: True/False

2 marks

When using a universal indicator to test the pH of water, the colour of the universal indicator will change towards green.

TRUE

FALSE

Total: 31 Marks