

7E Acids and alkalis

Extension questions

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Answer the following questions:



Click mouse to reveal answer

- Q1. What is a chemical with a pH less than 7 called?
- Q2. What is a chemical with a pH more than 7 called?
- Q3. What is a chemical with a pH of 7 called?
- Q4. What shows whether something is alkali or acid?
- Q5. What is a liquid with a solid dissolved in it called?
- Q6. What do you call it when substances chemically combine?
- Q7. What is the scientific way of writing down a chemical reaction called?
- Q8. What is a dangerous substance that dissolves other materials called?
- Q9. What is a corrosive alkali called?
- Q10. Name a yellow citrus fruit?
- Q11. Name an acid found in grapefruits and oranges?
- Q12. What acid do you put on your chips together with salt?
- Q13. What common chemical removes colour or stains from cloth?
- Q14. Name a red and blue indicator?
- Q15. What is the most common solvent called?
- Q17. What acid is in a lead-acid car battery?

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Answers:

A1. Acid

A2. Alkali

A3. Neutral

A4. An Indicator

A5. A Solution

A6. A reaction, react

A7. A Word Equation

A8. Corrosive

A9. Caustic

A10. Lemon

A11. Citric Acid

A12. Vinegar

A13. Bleach

A14. Litmus

A16. Water

A17. Sulphuric Acid

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multiple choice

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1: Lemon juice is tested for its pH using indicator paper, what is its pH ?

- A pH 7
 - B pH 1
 - C pH 3
 - D pH 14
-

2: An example of a strong alkali is ?

- A Vinegar
 - B Hydrochloric acid
 - C Water
 - D Caustic soda
-

3: When you add equal amounts of the same strength acid to an alkali you get ?

- A Evaporation
 - B Diffusion
 - C Neutralisation
 - D Condensation
-

4: How does an antacid like Rennie or Bisodol works ?

- A It helps digestion
 - B It destroy germs
 - C It neutralises stomach acid
 - D It speeds up digestion
-

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multiple choice

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A

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C Neutralisation

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4: How does an antacid like Rennie or Bisodol work ?

A

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C It neutralises stomach acid

D

Answer all the questions below:



Click mouse to reveal answer

1) Unscramble the following words:

cida

catroindi

ongtrs

seab

2) Make three sentences using the following nine words or phrases:

acids

acid

a good

corrode

alkali

example of a

metals like iron

neutralization

strong alkali is

3) Match the word or phrase with the right meaning:

pH

How much of something is in a solvent like water

Neutralization

When an acid and an alkali react forming water and a salt

Concentration

Tell us whether a liquid is acidic, neutral or alkali

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literacy in science

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Answer all the questions below:

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indicator

strong

base

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3) Match the word or phrase with the right meaning:

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Neutralization

When an acid and an alkali react forming water and a salt

Concentration

How much of something is in a solvent like water

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complete the sentence

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Place the right word or words to complete the sentence:



Click mouse to reveal answer

acid

affect

corrosive

alkali

strong

neutralised

citrus

indicator

death

- Strong acids can react with most materials and are described as _____ .
- Citric acid is found in_____ fruits and is known a vitamin C.
- An _____ can tell you the pH of a substance.
- Any substance that has a pH of 8 and above is an _____ .
- Caustic soda is a good example of a_____ alkali.
- When an acid and alkali are added together they are_____ .
- The pH of soil can_____ how well some crops like wheat will grow.
- Toxic means that this substance can cause _____ if swallowed.
- Irritant describes a substance that is not_____, but it will make the skin itch.

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complete the sentence

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Place the right word or words to complete the sentence:

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- a) **Strong acids can react with most materials and are described as corrosive.**
- b) **Citric acid is found in citrus fruits and is known a vitamin C.**
- c) **An indicator can tell you the pH of a substance.**
- d) **Any substance that has a pH of 8 and above is an alkali.**
- e) **Caustic soda is a good example of a strong alkali.**
- f) **When an acid and alkali are added together they are neutralised.**
- g) **The pH of soil can affect how well some crops like wheat will grow.**
- h) **Toxic means that this substance can cause death if swallowed.**
- i) **Irritant describes a substance that is not corrosive, but it will make the skin itch.**