Reactions of acids and making salts

Pearson Edexcel 1CH0 Separate Chemistry · Foundation and Higher

Show your working where needed.

Name _____ Date _____

1. Read pH values

Solution A has pH 3, solution B has pH 7 and solution C has pH 11. Identify the acidic, neutral and alkaline solutions.

2. A metal reacts with an acid

Magnesium reacts with dilute hydrochloric acid. Name the salt and gas produced. Describe how to test for the gas and give a positive result.

3. A carbonate reacts with an acid

Write the complete word equation for calcium carbonate reacting with nitric acid.

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4. Compare two metals

Zinc and copper are placed separately in dilute hydrochloric acid. Bubbles form around the zinc. There is no visible change with the copper. Explain these results using the reactivity series.

5. Choose starting materials

A student wants to make copper(II) sulfate crystals from an insoluble metal oxide and a dilute acid. Name the oxide and acid. Explain why it helps to have some solid left at the end of the reaction.

6. Prepare a pure sample of a salt

A student has a warm blue copper sulfate solution mixed with excess black copper oxide. Describe how to obtain dry hydrated copper sulfate crystals. Explain why the mixture should not be boiled dry.

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7. Compare two acid solutions (Higher)

Dilute hydrochloric acid and ethanoic acid have the same concentration. Predict which solution has the lower pH and explain why.

8. pH and concentration (Higher)

Solution X has pH 2 and solution Y has pH 5. Which has the higher hydrogen ion concentration? Calculate how many times greater it is and show your working.

9. Extra challenge · A clear solution and a solid

A student making hydrated copper sulfate from copper oxide and dilute sulfuric acid adds just enough oxide for the black solid to disappear. The student boils the blue liquid until it is dry. Explain what could still be present when the solid disappears. Describe a better method that gives separate hydrated crystals.

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