

Centre Number						Candidate Number				
Surname										
Other Names										
Candidate Signature										

For Examiner's Use Total Task 2



General Certificate of Education  
Advanced Level Examination  
June 2014

## Chemistry

## CHM6X/PM2

Unit 6X A2 Externally Marked Practical Assignment

### Task Sheet 2

To be completed before the EMPA Written Test

For submission by 15 May 2014

**For this paper you must have:**

- a ruler
- a calculator.

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### An investigation of some salt solutions

You have been provided with solutions **X**, **Y** and **Z**. Use a separate sample of each one to carry out each of the following tests.

Record what you **observe** in a table of your own design on the Candidate Results Sheet for Task 2. Where no visible change is observed, write 'no visible change'.

You are **not** required to identify any of the solutions **X**, **Y** and **Z** in this task.

#### Procedure

- **Wear eye protection at all times.**
- **Assume that all solutions are toxic and corrosive.**
- **Use a separate solution in each of the following tests.**

#### Test 1      Test with sodium hydroxide solution

Use a graduated plastic pipette to add about 1 cm<sup>3</sup> of solution **X** for Task 2 to a clean boiling tube. Add sodium hydroxide solution, dropwise with shaking, until you observe no further change. You should **not** fill more than half the boiling tube. Allow to stand for about 10 minutes.

Repeat the test with solution **Y** and then with solution **Z**.

#### Test 2      Test with potassium iodide solution

Use a graduated plastic pipette to add about 1 cm<sup>3</sup> of solution **X** for Task 2 to a clean test tube. Add about 10 drops of potassium iodide solution and shake the mixture. Allow to stand for about 5 minutes.

Repeat the test with solution **Y** and then with solution **Z**.

#### Test 3      Test with potassium thiocyanate solution

Use a graduated plastic pipette to add about 1 cm<sup>3</sup> of solution **X** for Task 2 to a clean test tube. Add about 5 drops of potassium thiocyanate solution. Then add about 5 drops of hydrogen peroxide solution.

Repeat the test with solution **Y** and then with solution **Z**.

**Candidate Results Sheet for Task 2**

Teacher Group .....

**Results**

Record your observations in an appropriate table in this space.

**[7 marks]**

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**There are no questions printed on this page**

**DO NOT WRITE ON THIS PAGE  
ANSWER IN THE SPACES PROVIDED**