Worksheet 2

Name Class Date

**1** Correctly fill the grid on the following page with these words and phrases. One cell has been completed for you.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **cream** | **barium chloride solution** | **dilute hydrochloric acid** | **dilute nitric acid** | **limewater** |
| **silver nitrate solution** | **turns milky** | **white** | **yellow** |  |

Cut out these cards. They contain the clues you need to correctly fill the grid.

|  |  |  |
| --- | --- | --- |
| One of the columns has the colours, in order, of the silver halide precipitates formed by Cl−, Br− and I− ions. | One of the corners shows the name for an acid that contains chloride ions. | One of the rows shows, in order, the solutions added to a sample to test for bromide ions and the colour of the precipitate formed. |
| One of the corners shows the colour of silver iodide. | The centre box contains the name of a solution that contains transition metal ions. | One of the corners shows the colour of the precipitates formed in the tests for chloride ions and for sulfate ions. |
| One of the rows shows, in order, the solutions added to a sample to test for sulfate ions and the colour of the precipitate formed. | The result of a test for carbon dioxide is on the right of the name of the solution used in the test. | One of the columns shows two acids and an alkali. |

|  |  |  |
| --- | --- | --- |
|  |  |  |
|  | silver nitrate solution |  |
|  |  |  |

**2 a** Name a physical test which can be used to determine the purity of a sample of water.

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**b** What result would you expect the physical test in part **a** to produce for a pure sample of water?

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