

This file was downloaded from the American Curriculum website



Review Chemistry about Worksheet الملف

[Almanahj Website](#) → [American curriculum](#) → [10th Grade](#) → [Chemistry](#) → [Term 1](#) → [The file](#)

More files for 10th Grade , Subject Chemistry , Term 1

[Worksheet about Chemistry Tools](#)

1

[Global Carbon Cycle Worksheet](#)

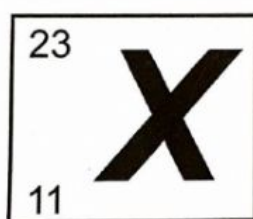
2

[Chemistry Test](#)

3

**CHEMISTRY PAPER 1**  
**KIMIA KERTAS 1**  
**1 HOUR 15 MINUTES**  
**1 JAM 15 MINIT**  
Answer all questions.  
*Jawab semua soalan.*

- 1 Which of the following substances consists of ions?  
*Antara bahan berikut, yang manakah terdiri daripada ion?*
- A Lithium/*Litium*  
B Barium hydroxide/*Barium hidroksida*  
C Carbon dioxide/*Karbon dioksida*  
D Tetrachloromethane/*Tetraklorometana*
- 2 Diagram 1 shows the standard representation of element X.  
*Rajah 1 menunjukkan perwakilan piawai bagi unsur X.*



Diagram/Rajah 1

- Which of the following is true about X?  
*Antara yang berikut, yang manakah benar tentang X?*
- A Atom X has 23 neutrons.  
*Atom X mempunyai 23 neutrons.*
- B Atom X has 11 nucleon.  
*Atom X mempunyai 11 nukleon.*
- C Atom X is located in group 1 in the Periodic Table of Elements.  
*Atom X terletak dalam Kumpulan 1 dalam Jadual Berkala Unsur.*
- D X exists as gas at room temperature.  
*X wujud sebagai gas pada suhu bilik.*
- 3 Which of the following chemical formulae is correct?  
*Antara formula kimia berikut, yang manakah betul?*
- |                           |   |                 |
|---------------------------|---|-----------------|
| A $\text{Al}_2\text{O}_3$ | B | MgBr            |
| C $\text{AgCl}_2$         | D | $\text{CuNO}_3$ |

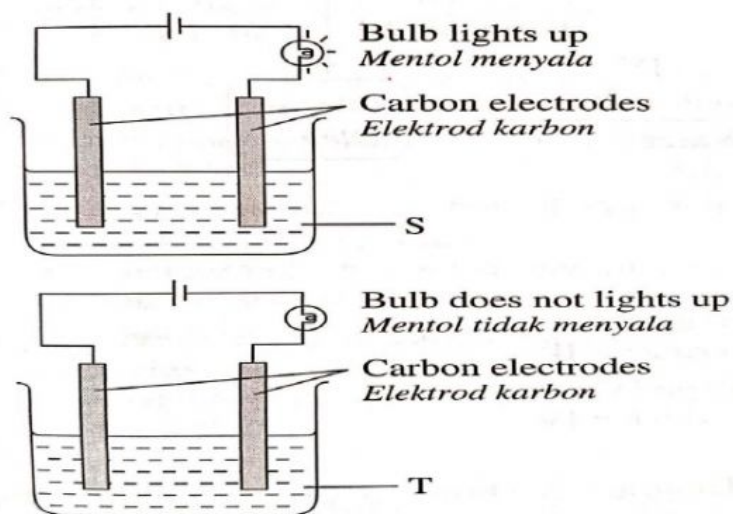






- 11 Diagram 6 shows the apparatus setup to study the electrical conductivity of substance S and substance T.

Rajah 6 menunjukkan susunan radas untuk mengkaji kekonduksian elektrik bahan S dan bahan T.



Diagram/Rajah 6

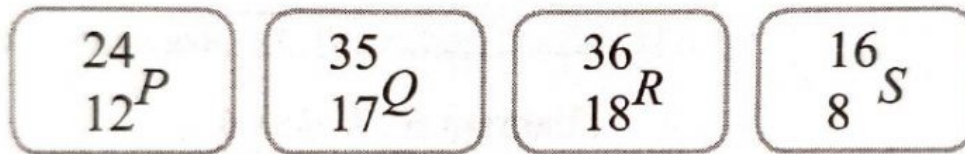
Which of the following can be substance S and substance T?

Antara yang berikut, yang manakah mungkin bahan S dan bahan T?

|   | S  | T  |
|---|--|--|
| A | Methylbenzene<br><i>Metilbenzena</i>                       | Lead(II) nitrate solution<br><i>Larutan plumbum(II) nitrat</i> |
| B | Glucose solution<br><i>Larutan glukosa</i>                 | Absolute ethanol<br><i>Etanol mutlak</i>                       |
| C | Sodium chloride solution<br><i>Larutan natrium klorida</i> | Glacial ethanoic acid<br><i>Asid etanoik glasial</i>           |
| D | Vinegar<br><i>Cuka</i>                                     | Hydrochloric acid<br><i>Asid hidroklorik</i>                   |

- 12 Diagram 7 shows the atomic symbol for four different elements. The letters P, Q, R and S are not the actual elements. The letter P, Q, R and S are not the actual symbol of the elements.

Rajah 7 menunjukkan simbol atom bagi empat unsur yang berbeza. Huruf P, Q, R dan S tidak menunjukkan simbol sebenar bagi unsur-unsur tersebut.



Diagram/Rajah 7

Which of the following is the correct formula and type of bond when two elements react?  
Antara berikut, formula dan jenis ikatan yang manakah betul apabila dua unsur bertindak balas?

|   | <b>Formula</b><br><i>Formula</i> | <b>Type of bond</b><br><i>Jenis ikatan</i> |
|---|----------------------------------|--|
| A | PR <sub>2</sub>                  | Ionic bond/ <i>Ikatan ionik</i>            |
| B | PQ <sub>2</sub>                  | Ionic bond/ <i>Ikatan ionik</i>            |
| C | S <sub>2</sub> Q                 | Covalent bond/ <i>Ikatan kovalen</i>       |
| D | SR                               | Covalent bond/ <i>Ikatan kovalen</i>       |

- 13 Magnesium bromide is an ionic compound. Which substance can dissolve magnesium bromide?

Magnesium bromida adalah sebatian ion. Bahan manakah yang boleh melarutkan magnesium bromida?

- |                          |   |  |
|--------------------------|---|--|
| A Ether/ <i>Eter</i>     | B | Water/ <i>Air</i>                          |
| C Hexane/ <i>Heksana</i> | D | Tetrachloromethan/ <i>Tetraklorometana</i> |

- 14 Table 1 shows the property of oxide of elements M, N, P and Q.  
*Jadual 1 menunjukkan sifat oksida bagi unsur M, N, P dan Q.*

| Element/ <i>Unsur</i> | Property of oxide/ <i>Sifat oksida</i>               |
|-----------------------|--|
| M                     | Does not form oxide<br><i>Tidak membentuk oksida</i> |
| N                     | Acidic/ <i>Berasid</i>                               |
| P                     | Amphoteric/ <i>Amfoterik</i>                         |
| Q                     | Basic/ <i>Berbes</i>                                 |

Table/*Jadual* 1

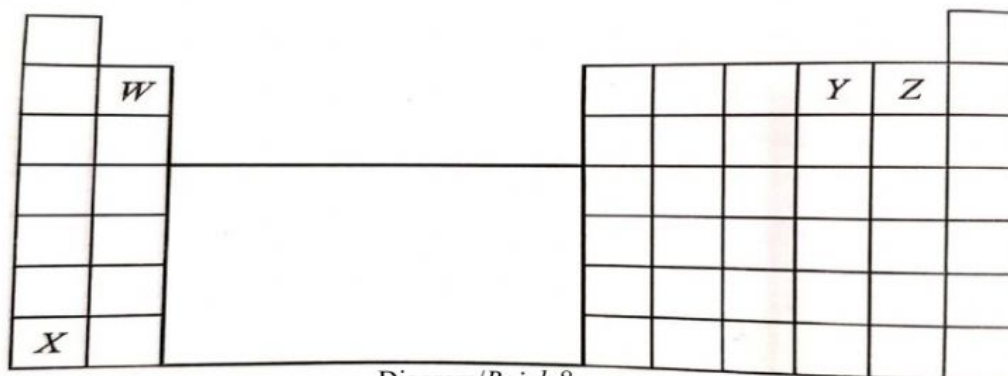
Which of the following is the correct position of elements M, N, P and Q in the Periodic Table of Elements?

*Antara berikut, yang manakah kedudukan yang betul bagi unsur M, N, P dan Q dalam Jadual Berkala Unsur?*

|   | Element/ <i>Unsur</i> M   | Element/ <i>Unsur</i> N   | Element/ <i>Unsur</i> P   | Element/ <i>Unsur</i> Q   |
|---|---------------------------|---------------------------|---------------------------|---------------------------|
| A | Group/ <i>Kumpulan</i> 1  | Group/ <i>Kumpulan</i> 17 | Group/ <i>Kumpulan</i> 13 | Group/ <i>Kumpulan</i> 18 |
| B | Group/ <i>Kumpulan</i> 13 | Group/ <i>Kumpulan</i> 18 | Group/ <i>Kumpulan</i> 17 | Group/ <i>Kumpulan</i> 13 |
| C | Group/ <i>Kumpulan</i> 17 | Group/ <i>Kumpulan</i> 18 | Group/ <i>Kumpulan</i> 1  | Group/ <i>Kumpulan</i> 13 |
| D | Group/ <i>Kumpulan</i> 18 | Group/ <i>Kumpulan</i> 17 | Group/ <i>Kumpulan</i> 13 | Group/ <i>Kumpulan</i> 1  |

- 15 Diagram 8 shows parts of the Periodic Table of Elements. The symbols W, X, Y and Z do not represent the actual symbols of the elements.

*Rajah 8 menunjukkan sebahagian Jadual Berkala Unsur. Simbol-simbol W, X, Y dan Z tidak mewakili simbol sebenar unsur.*



Diagram/*Rajah*-8 . -

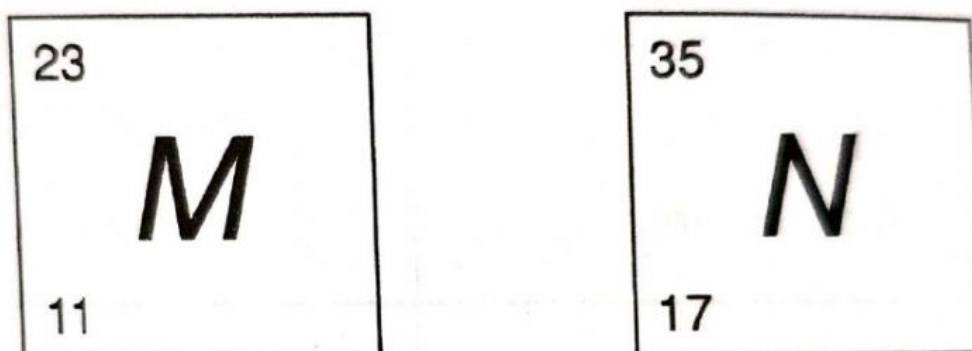
Which of the following shows the correct arrangement elements W, X, Y and Z in order of increasing atomic size?

*Antara berikut, yang manakah mewakili susunan yang betul pertambahan saiz atom bagi unsur-unsur W, X, Y dan Z?*

- |   |            |   |            |
|---|------------|---|------------|
| A | W, X, Y, Z | B | X, Y, W, Z |
| C | Y, Z, X, W | D | Z, Y, W, X |



- 16 Which of the following molecules is not capable of hydrogen bonding?  
*Antara molekul yang berikut, yang manakah tidak berupaya membentuk ikatan hidrogen?*
- |                                   |  |
|-----------------------------------|--|
| A Naphthalene<br><i>Naftalena</i> | B Hydrofluoric acid<br><i>Asid hidroflorik</i> |
| C Ethanol<br><i>Etanol</i>        | D Ammonia<br><i>Ammonia</i>                    |
- 17 The conduction of electricity in metallic bonding is due to the presence of  
*Kekonduksian elektrik di dalam ikatan logam adalah disebabkan oleh kehadiran*
- |   |                   |
|---|-------------------|
| A Protons/proton  | B Lattice/kekisi  |
| C delocalized electrons<br><i>elektron dinyahsetempat</i> | D Nucleus/nukleus |
- 18 Diagram 9 shows the symbols of elements M and N.  
*Rajah 9 menunjukkan simbol bagi unsur M dan N.*



Diagram/Rajah 9

- Which of the following is **true** of the compound that forms when M reacts with N?  
*Antara yang berikut, yang manakah **benar** tentang sebatian yang terbentuk apabila M bertindak balas dengan N?*
- |  |
|--|
| A Insoluble in water<br><i>Tidak melarut dalam air</i>   |
| B Has low melting and boiling points<br><i>Mempunyai takat lebur dan takat didih yang rendah</i>                   |
| C Does not conduct electricity in the solid state<br><i>Tidak mengkonduksi arus elektrik dalam keadaan pepejal</i> |
| D Does not conduct electricity in the liquid state<br><i>Tidak mengkonduksi arus elektrik dalam keadaan cecair</i> |

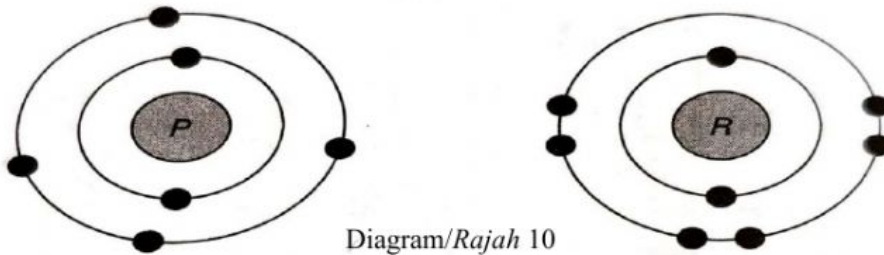
- 19 The following statements are about atoms U and T.  
Pernyataan berikut adalah mengenai atom U dan T.

- Electron arrangement of atom U is 2.5.  
*Susunan elektron atom U ialah 2.5.*
- Proton number of atom T is 17.  
*Nombor proton atom T ialah 17.*

Which of the following is **true** of the compound formed between U and T?  
*Antara yang berikut, yang manakah adalah **benar** bagi sebatian yang terbentuk antara U dan T?*

- A Atom U donates 5 electrons to atom T.  
*Atom U mendermakan 5 elektron kepada atom T.*
- B Atom U shares 5 electrons with atom T.  
*Atom U berkongsi 5 elektron dengan atom T.*
- C Atom U shares 3 electrons with atom T.  
*Atom U berkongsi 3 elektron dengan atom T.*
- D Atom T accepts 3 electrons from atom U.  
*Atom T menerima 3 elektron daripada atom U.*

- 20 Diagram 10 shows the electron arrangement of atom P and atom R.  
*Rajah 10 menunjukkan susunan elektron bagi atom P dan atom R.*



P reacts with R to form a compound. What is the type of bond and formula of the compound formed?

*P bertindak balas dengan R untuk membentuk satu sebatian. Apakah jenis ikatan dan formula sebatian yang terbentuk?*

|   | Type of bond/Jenis ikatan    | Formula of compound/Formula sebatian |
|---|------------------------------|--------------------------------------|
| A | Ionic bond/Ikatan ionik      | PR <sub>2</sub>                      |
| B | Ionic bond/Ikatan ionik      | P <sub>2</sub> R                     |
| C | Covalent bond/Ikatan kovalen | PR <sub>2</sub>                      |
| D | Covalent bond/Ikatan kovalen | R <sub>2</sub> P                     |

- 21 Which of the following substances has a pH value of more than 7?  
*Antara bahan berikut, yang manakah mempunyai nilai pH lebih daripada 7?*

- A Vinegar/Cuka
- B Orange juice/Jus oren
- C Sugar/Gula
- D Limewater/Air kapur