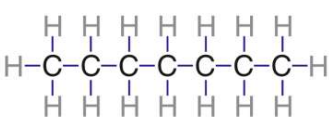
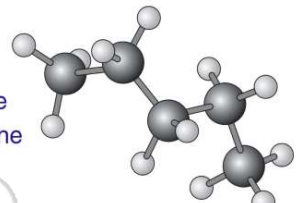
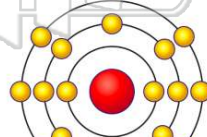




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

- 1 Which **hydrocarbon** is **saturated**?
- A propene
  - B ethyne
  - C butene
  - D heptane
- 

- 2 Which compound is an **isomer** of **pentane**?
- A butane
  - B propane
  - C methyl butane
  - D methyl propane
- 

- 3 In which substance does **chlorine** have an **oxidation number of +1**?
- A Cl<sub>2</sub>
  - B HCl
  - C HClO
  - D HClO<sub>2</sub>
- 

- 4 **Hexane** (C<sub>6</sub>H<sub>14</sub>) and **water** do not form a solution.

Which statement explains this phenomenon?

- A Hexane is polar and water is nonpolar.
- B Hexane is ionic and water is polar.

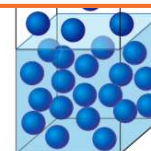


## PREVIEW

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- 6
- A are homogeneous
  - C combine in a definite ratio
  - D consist of two or more substances

- B H<sub>2</sub>O(s) → H<sub>2</sub>O(g)
- C H<sub>2</sub>O(l) → H<sub>2</sub>O(g)
- D H<sub>2</sub>O(g) → H<sub>2</sub>O(l)



- 9 What occurs when **NaCl(s)** is added to **water**?
- A The boiling point of the solution increases, and the freezing point of the solution decreases.
  - B The boiling point of the solution increases, and the freezing point of the solution increases.
  - C The boiling point of the solution decreases, and the freezing point of the solution decreases.
  - D The boiling point of the solution decreases, and the freezing point of the solution increases.

- 10 When a mixture of water, sand, and salt is filtered, what **passes through** the filter paper?

- A water, only
- B water and sand, only
- C water and salt, only
- D water, sand, and salt

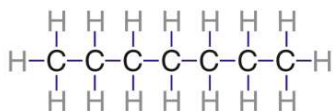




## ANSWER KEY

Which **hydrocarbon** is **saturated**?

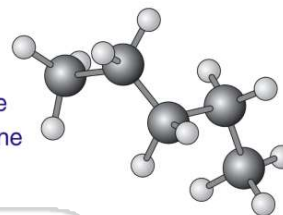
- A propene
- B ethyne
- C butene
- D heptane



(d)

Which compound is an **isomer** of **pentane**?

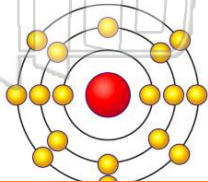
- A butane
- B propane
- C methyl butane
- D methyl propane



(c)

In which substance does **chlorine** have an **oxidation number of +1**?

- A Cl<sub>2</sub>
- B HCl
- C HClO
- D HClO<sub>2</sub>



(c)

**Hexane (C<sub>6</sub>H<sub>14</sub>)** and **water** do not form a solution.

Which statement explains this phenomenon?

- A Hexane is polar and water is nonpolar.
- B Hexane is ionic and water is polar.
- C Hexane is nonpolar and water is polar.

(c)



## PREVIEW

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D consist of two or more substances

D  $\text{H}_2\text{O}(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l})$



What occurs when **NaCl(s)** is added to **water**?

- A The boiling point of the solution increases, and the freezing point of the solution decreases.
- B The boiling point of the solution increases, and the freezing point of the solution increases.
- C The boiling point of the solution decreases, and the freezing point of the solution decreases.
- D The boiling point of the solution decreases, and the freezing point of the solution increases.

(a)

When a mixture of **water**, **sand**, and **salt** is filtered, what **passes through** the filter paper?

- A water, only
- B water and sand, only
- C water and salt, only
- D water, sand, and salt

(c)

