

11. Organic chemistry

Starter Quiz · 课前小测

IGCSE Chemistry

Name: _____ Score: _____

1. Organic chemistry is the study of compounds containing:

- ☐ carbon
- ☐ only metals
- ☐ only oxygen
- ☐ noble gases

2. How many carbon atoms does the prefix "prop-" indicate?

- ☐ three
- ☐ one
- ☐ two
- ☐ four

3. A hydrocarbon is a compound of:

- ☐ hydrogen and carbon only
- ☐ hydrogen and oxygen
- ☐ carbon and nitrogen
- ☐ metals

4. Alkanes are described as saturated because they have:

- ☐ only single carbon-carbon bonds
- ☐ a double bond
- ☐ a triple bond
- ☐ no carbon

5. Alkenes contain a:

- ☐ carbon-carbon double bond
- ☐ only single bonds
- ☐ nitrogen atom
- ☐ metal ion

6. Boiling points rise gradually as the chain length increases in a series.

- ☐ True ☐ False

7. How many carbon atoms are in butane?

- ☐ True ☐ False

8. Incomplete combustion can produce toxic carbon monoxide.

- ☐ True ☐ False

9. Alkanes burn well, which is why they are used as fuels.

- ☐ True ☐ False

10. Alkenes are unsaturated because of their double bond.

IGCSE Chemistry

1. **carbon**

Organic compounds are carbon-based.

2. **three**

meth-(1), eth-(2), prop-(3), but-(4).

3. **hydrogen and carbon only**

Hydrocarbons contain only hydrogen and carbon.

4. **only single carbon-carbon bonds**

Saturated = all single bonds.

5. **carbon-carbon double bond**

The C=C double bond defines alkenes.

6. **True**

Longer chains have higher boiling points.

7. **4**

but- means 4 carbons.

8. **True**

Too little oxygen makes CO and soot.

9. **True**

Combustion releases lots of energy.

10. **True**

The double bond can open to add atoms.