

**MINISTRY OF EDUCATION
SECONDARY ENGAGEMENT PROGRAMME**

GRADE 11

CHEMISTRY

Week 11

Worksheet

1. The small, repeating units that comprise a polymer are called _____.
 - a. radicals
 - b. cells
 - c. monomers
 - d. unimers

2. What polymer is used to make disposable foam coffee cups?
 - a. polystyrene
 - b. polyisoprene
 - c. polypropylene
 - d. polyvinyl chloride

3. When was the polymer nylon invented?
 - a. 1980
 - b. 1966
 - c. 1951
 - d. 1935

4. How does the molar mass of a polymer compare to the molar mass of other common organic molecules?
 - a. It is slightly higher.
 - b. It is about the same.
 - c. It is much higher.
 - d. It is slightly lower.

5. What is required of the monomers that make up a condensation polymer?
 - a. They must be at least four carbons in length.
 - b. They must have a double bond.
 - c. They must contain nitrogen.
 - d. They must have two functional groups.

6. Fill in the blank(s):

An addition polymer is a chain formed by _____ that contain a double bond.

7. Fill in the blank(s):
The _____ needs to have the same functional group at each end of the molecule.
8. PET is an example of what common type of condensation polymer?
- polyurethane
 - polyamide
 - polyester
 - polycarbonate
9. Polymerization reactions can generally be of what type?
- addition
 - condensation
 - substitution
- 1, 2, and 3
 - 1 and 3 only
 - 1 and 2 only
 - 1 only
10. PET is an acronym for what condensation polymer?

Answer:

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Worksheet - Answers

1. monomers
2. polystyrene
3. 1935
4. It is much higher.
5. They must have two functional groups.
6. monomers
7. monomer
8. polyester

9. 1 and 2 only
10. polyethylene terephthalate