

UJIAN TOPIKAL
CHAPTER 5: MATTER

1. Complete these following statements on matter

Fine particles	Chemical changes	absorption	composition	new material
Mass	Physical changes	volume	release	

a) Matter is a material consisting of _____ that has _____ and _____

b) Changes on matter can be classified into two types, namely _____ and _____.

c) Changes of matter involve _____ or _____ of energy.

d) Chemical changes is the change that produces one or more _____.

e) The resulting new substance has different _____ from the original substance. For example, an egg fried in oil will change from liquid state to a solid state on both yolk and egg white.

2. Determine whether the situations below shows the chemical or property or physical property or matter.

Statement	Physical property / Chemical property
a) Water boils when heated	
b) The gate of a house is rusted	
c) The rubbish is collected and burnt	
d) Sugar dissolves in water	

3. Classify the substances given in the space provided. Then, choose the characteristic used to classify the substances.

a) Mixture of petrol and water

Denser	Less dense
(i)	(ii)

☐

Density

☐

Melting
point

☐

Boiling point

☐

Solubility

b) Ethanol and cooking oil

Boil at the temperature less than 100°C	Boil at the temperature more than 100°C
(i)	(ii)

☐

Density

☐

Melting
point

☐

Boiling point

☐

Solubility

c) Naphthalene and iron fillings

Physical states at 85 °C	
Solid	Molten
(i)	(ii)

☐

Density

☐

Melting
point

☐

Boiling point

☐

Solubility

d) Mixture of salt and sand

Solubility in water	
Soluble	Insoluble
(i)	(ii)

☐

Density

☐

Melting
point

☐

Boiling point

☐

Solubility