

Chapter 4 (Matter and Energy) Bookwork Answer Key

5, 7, 13, 15, 25, 28, 31, 37, 42, 45, 55, 57, 61, 65, 71, 73, 79, 80, 85

5. The *liquid state* has particles closely packed and free to move about.

7.	<u>Change of State</u>	<u>Term</u>
(a)	gas to liquid	condensing
(b)	solid to liquid	melting

13.	<u>Example</u>	<u>Classification</u>
(a)	sodium metal	element
(b)	chlorine gas	element
(c)	sodium chloride	compound
(d)	salt water	mixture

15.	<u>Example</u>	<u>Classification</u>
(a)	copper wire	element
(b)	copper ore	heterogeneous mixture
(c)	copper oxide	compound
(d)	brass alloy	homogeneous mixture

25.	<u>Property</u>	<u>Classification</u>
(a)	shiny solid	metal
(b)	brittle solid	nonmetal
(c)	low density	nonmetal
(d)	forms alloys	metal

28.	<u>Element</u>	<u>Classification</u>
(a)	Sb	semimetal
(b)	S	nonmetal
(c)	Ar	nonmetal
(d)	Te	semimetal

31.	<u>Element</u>	<u>Physical State</u>
(a)	Na	solid
(b)	N	gas
(c)	Si	solid
(d)	Kr	gas

