

Chapter 1

Melting	The process that occurs when a solid turns into a liquid.
Melting point	The temperature at which a substance melts. Each substance has a specific melting point.
Boiling	The process that occurs when a liquid turns into a gas.
Boiling point	The temperature at which a substance boils. Each substance has a specific boiling point.
Evaporation	The process that occurs at the surface of a liquid as it turns into a gas. Evaporation can occur at temperatures lower than the boiling point of a liquid.
Freezing	The process that occurs when a liquid turns into a solid.
Freezing point	The temperature at which a substance freezes. (This has the same value as the melting point.)
Condensation	The process that occurs when a gas turns into a liquid.

No.	English	Chinese	No.	English	Chinese
1	particle	微粒	16	atom	原子
2	solid	固体	17	molecule	分子
3	liquid	液体	18	ion	离子
4	gas	气体	19	random motion	无规则运动
5	shape	形状	20	arrange, arrangement	排布
6	volume	体积	21	lattice	晶格
7	melt, melting	熔化	22	vibrate, vibration	振动
8	melting point	熔点	23	kinetic particle theory	微粒的动力学理论
9	evaporate, evaporation	蒸发	24	gas pressure	气压
10	boil, boiling	沸腾	25	temperature	温度
11	boiling point	沸点	26	compress	压缩
12	freeze, freezing	凝固	27	heating curve	加热曲线
13	sublime, sublimation	升华	28	cooling curve	冷凝曲线
14	condense, condensation	冷凝	29	matter, substance	物质
15	liquefy	液化	30	diffuse, diffusion	扩散

Chapter 2

Atom	Atoms are the smallest particles of matter, that we cannot break down further by chemical means.
Element	A substance containing only one kind of atom.
Proton number (atomic number)	The number of protons in the nucleus of an atom.
Nucleon number (mass number)	The total number of protons and neutrons in the nucleus of an atom.
Ion	A charged atom or group of atoms formed by the gain or loss of electrons.
Group number	The number of the vertical column that an element is in on the periodic table.
Period number	The horizontal row of the periodic table that an element is in.

No.	English	Chinese	No.	English	Chinese
1	atom	原子	15	ion	离子
2	element	元素（单质）	16	(un)reactive	(不)活泼的
3	sub-atomic particles	亚原子微粒	17	(non-)metals	(非)金属
4	proton	质子	18	conductor, conductivity	导体，导电性
5	electron	电子	19	noble gas configuration	稀有气体构型
6	neutron	中子	20	outer shell outermost shell	最外层
7	nucleus	原子核	21	electronic configuration, electronic structure, electron arrangement, electron distribution	电子构型 电子排布
8	nucleon(=proton+neutron)	核子			
9	nucleon number	核子数			
10	proton number	质子数	22	Periodic table	元素周期表
11	atomic number	原子序数	23	group, group number	族(数)
12	mass number	质量数	24	period, period number	周期(数)
13	energy level	能级	25	valence electrons	价电子
14	electron shell	电子层			