- M1. (a) gravitational accept gravity do **not** accept weight
 - (b) (i) planet(s) accept comet(s) accept asteroid(s) do **not** accept moon(s)
 - (ii) balanced accept equal / the same / are in equilibrium
 - (iii) Milky Way accept milky way

[4]

1

1

1

1

M2.	(a)	dust
-----	-----	------

. ,	accept 'solid (s)'	1
	space accept 'from supernova / supernovum / supernovas'	1
(b)	By atoms joining together only one ticked or otherwise unambiguously identified	1
(C)	Milky Way (galaxy)	1
(d)	The answer depends on beliefs and opinions, not scientific evidence. only one ticked or otherwise unambiguously identified	1

[5]

(a)	uranium-235	
	accept any correct indication	1
(b)	splits / breaks (into two smaller parts) nucleus is separated is insufficient do not accept atom splits – on its own	1
	and (two / three) neutrons	1
(C)	steam correct order only	1
	turbine	1
	generator	1

[6]

МЗ.

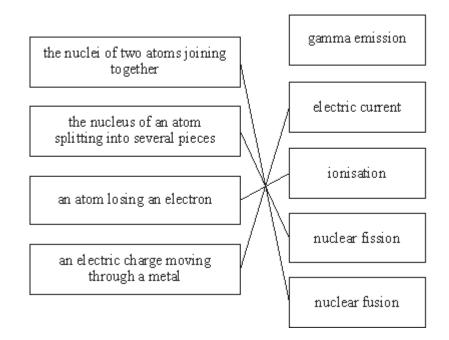
M4. four lines correct

allow **1** mark for each correct line

if more than 1 line is drawn from a box in List A, mark each line incorrect

List A

List B



[4]

M5. (a)	(i)	protostar correct order only	1
		red giant	1
		black dwarf	1
	(ii)	Alpha Centauri A accept any correct indication, eg alpha, centauri, A reason only scores if Alpha Centauri A is chosen	1
		stars (about) same size as Sun form white / black dwarfs or very large stars form red super giants / supernova/black hole <i>it is the same size as the Sun is insufficient</i> <i>same life cycle as the Sun is insufficient</i>	1
(b)	Ato	mic nuclei inside the star join together	

1

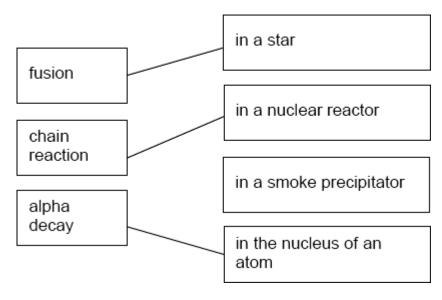
M6.three lines correct

allow **1** mark for each correct line

if more than 1 line is drawn from a box in **List A***, mark each line incorrect*

List A

List B



[3]