## Progress check

Unit C1, C1.1.1 and C1.1.2 Mark Scheme

## THE SCIENCE LAB

## Atoms and the periodic table

1.	(a)	nucleus		1	
		electron		1	
	(b)	correct num	ber of electrons (12) accept dots and circles	1	
		2.8.2		1	[4]
2.	(a)		xygen / oxidise / burn in oxygen / burning / combustion <b>or</b> tungsten oxide <b>or</b> makes an oxide	1	
			key idea is oxidation ignore breaking ignore fire / flames / exothermic ignore react with air		
	(b)		nreactive / not reactive / inert / does not react with tungsten ble gas <b>or</b> it is in group 0 or 8 or 18	1	
			do <b>not</b> accept unreactive / inert metal <b>or</b> argon is not <u>very</u> reactive		
		full outer shell (of electrons) / 8 electrons in outer shell does not need to gain / lose / swap / transfer / share electrons <b>or</b> does not need to form bonds		1	
				1	
			does not bond ionically / covalently		[4]
3.	(a)	sodium / ma	agnesium / aluminium (Allow correct symbols) for 1 mark	1	
	(b)	argon	(Allow correct symbols) for 1 mark	1	
	(c)	chlorine	(Allow correct symbols)	1	
			for 1 mark		[3]



