

Practice test mark scheme Foundation

Q	Expected answers	Marks	Additional guidance
1	a carbon and hydrogen	1	
	b <ul style="list-style-type: none"> ● lubricants ● fuels 	1 1	
		3	
2	a <ul style="list-style-type: none"> ● cotton ● leather ● wool ● poly(ethene) 	1 1 1 1	
	b <ul style="list-style-type: none"> ● polyester is more stretchy than cotton ● polyester is stronger than cotton 	1 1	
	c polyester (1); poly(ethene) (1)	2	
			8
3	a crude oil	1	
	b <ul style="list-style-type: none"> ● energy required for making the window frames from PVC (1); ● environmental impact of disposing of the window frames when they are no longer used (1) 	2	
		3	
4	a <ul style="list-style-type: none"> ● broken glass can be dangerous (1); ● recycling uses less energy than making new glass (1) 	2	reject: saves money
	b i 13	1	reject: saves money
	ii 25	1	
	c <ul style="list-style-type: none"> ● Chooses flat in tall building or house in countryside (1) ● Gives valid reason (Flat: each different sorted waste needs to be brought down to street level/two different bins have to be put on each floor level (1); country house: waste has to be transported over greater distance / transport costs are higher (1)) 	2	
		6	
Total		20	

Practice test mark scheme Higher

Q	Expected answers	Marks	Additional guidance	
1	a polyester <u>and</u> poly(thene) (1)	1		
	b cotton absorbs more sweat, so you stay dry (1)	1		
	c <ul style="list-style-type: none"> polyester is more stretchy than cotton (1); polyester is stronger than cotton (1) 	2		
		4		
2	a <ul style="list-style-type: none"> energy required for making the window frames from PVC (1); environmental impact of disposing of the window frames when they are no longer used (1) 	2	All 7 rows correct: (4) 6 correct: (3) 5 correct (2) 3 or 4 correct (1)	
	b			
	PVC more environmental impact	✓		
	PVC .. more energy to make	✓		
	trees have to be cut down			✓
	wooden more expensive			✓
	wood is sustainable	✓		
	wood needs to be painted			✓
wood rots		✓		
		6		
3	a <ul style="list-style-type: none"> the forces between the molecules are stronger (1); the molecules need more energy to break out of their regular arrangement in the solid (1) 	2		
	b <ul style="list-style-type: none"> the polymer has decreased chain length (1); plasticizers are added to the polymer (1) 	2		
		4		
4	a too lazy / can't be bothered (1); can't see immediate benefit / benefit is not obvious / can't see benefit to them (1);	2	Any two reasons Can name one of Zn, Pb, Ni, Cd from article.	
	b $(1000/25000) \times 100 = 4\%$	1		
	c <ul style="list-style-type: none"> younger people more willing to change habits / more interested in money / less well off (1); young people have more interest in long term benefit of recycling (1) 	2		
	d batteries contain (more) toxic metal (1)	1		
		6		
Total		20		