Unit 3 Life on Earth Key Area 1 Revision Questions Mark Scheme

- 1. D
- 2. A
- 3. D
- 4. B
- 5. C
- 6. B
- 7. D
- 8. C
- 9. D
- 10. B
- 11. C
- 12. D
- 13. A
- 14. B
- 15. A
- 16. B

(a)	(i)	19	1	
	(ii)	(Up to 10 seeds sown, the percentage of seedlings surviving remains constant and thereafter) as the number of seeds (sown) increases the percentage (of seedlings) surviving decreases.	1	Also acceptable: as the number of seeds (sown) decreases the percentage (of seedlings) surviving increases (until 10 seeds and then it remains constant). Not acceptable: percentage of seeds surviving decreases.
	(iii)	They/plants/seeds/seedlings/ organisms are the same species.	1	Not acceptable: any reference to 'fighting'. Any additional reference to requiring resources must be correct.
(b)		Tick in first box.	1	More than one tick negates.
(c)		Light/sunlight/nutrients/minerals/space.	1	Not acceptable: - light intensity - food.

18. All the organisms living in a particular area and the non-living components (with which they interact)

1

19. Stickleback 1

20.

(i) Flat (periwinkle) Don't live on/occupy the same position on the shore/ live on different/separate parts of the shore/small live at high tide and flat live at low tide/one lives at low tide and one at high tide		1	Not acceptable: • don't live in the same place • they are further or furthest apart/away from each other
(ii)	They are different species/they are not the same species/more than one species are competing	1	The addition of information about resources it must be 'similar'.

(a)	(i)	the dis	eneral tren stance incre ers/populat ems increas tres	eases, ion/	2	Must mention change point at 12 metres for both marks For example 'numbers increase then levels off' = 1 mark
	After that, numbers/ population remains steady/ stays the same 1					If the candidate accurately describes the pattern from 1m to 4m that is acceptable, but wrongly described will forfeit 1 mark.
	(ii)	3			1	
(b)	(i)	Predator rex sole and curlew curlew and curlew rex sole and dover sole	Type of Co Intraspecific ✓	Interspecific ✓	1	Extra ticks negate