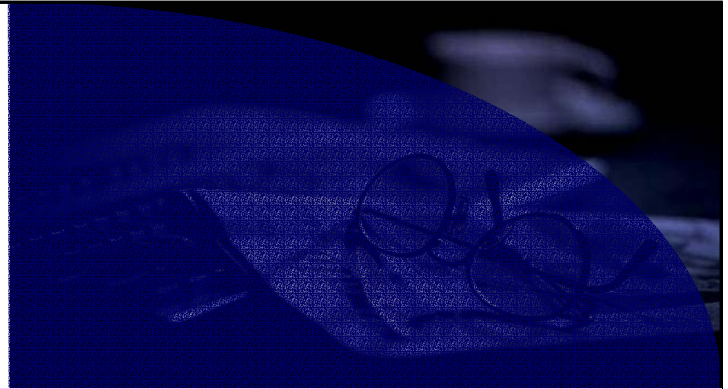


assessment for learning
year 7...mark scheme



Science Interactive LTD. PO BOX 50764 LONDON NW6 9AT

web: [www: science-interactive.co.uk](http://www.science-interactive.co.uk)

7C Environment and feeding relationships...mark scheme

Assessment for learning...year 7 (level 3-6)

Question 1:

- | | | |
|------|---------------------------------------|---|
| (i) | sewage | 1 |
| | fertiliser | 1 |
| | <i>answers may be in either order</i> | |
| | any two from | 2 |
| | • insects | |
| | • fish | |
| | • birds | |
| | - | |
| (ii) | farmland | 1 |
| | insects | 1 |
| | birds | 1 |
| | <i>answers may be in either order</i> | |

[7]

Question 2:

- | | | | |
|-----|-----------|--|---|
| (a) | (i) | microscopic plants → tadpoles → water boatmen → perch | |
| | or | microscopic plants → water fleas → small fish → perch | 1 |
| | | <i>accept 'plants' or 'microscopic' for microscopic plants</i> | |
| | (ii) | microscopic plants | 1 |
| | | <i>accept 'plants'</i> | |

- (b) decrease 1
accept 'go down'
- any **one** from 1
- more of them are eaten by perch
 - perch would have no small fish to eat
- accept 'because the increased number of water fleas eat more plants, there is less food for tadpoles, therefore fewer tadpoles'*
- [4]**

Question 3:

- (a) not enough light 1
accept 'no light' or 'not enough Sun' or 'no chlorophyll'
do not accept 'not enough water' or 'urine from the hutch'
- (b) **the answer must show an understanding of the need for a fair test**
- (i) any **one** from 1
- as a control **or** comparison
 - to make it a fair test
 - to see if the grass is affected by light
- accept 'to show the effect of the Sun'*
- (ii) it will die 1
accept 'goes brown' or 'rots'
do not accept 'loses its colour'
- (c) they grow ✓ 1
 they reproduce ✓ 1
if more than two boxes are ticked deduct one for each incorrectly ticked box
minimum mark zero
- [5]**

Question 4:

- (a) (i) seal 1
- (ii) any **one** from 1
- musk ox
 - seal
- (iii) hedgehog 1
- (b) Female mammals produce milk to feed their young. ✓ 1

Young mammals develop inside their mother's body. ✓ 1

Mammals have hair on their bodies. ✓ 1

*if more than three boxes are ticked,
deduct one mark for each incorrectly
ticked box*

minimum mark zero

[6]

Question 5:

(a) gives oxygen 1

answers may be in either order

accept 'helps fish to breathe'

accept 'absorbs carbon dioxide'

*do **not** accept 'gives air **or** bubbles'*

*do **not** accept 'oxygen'*

gives food 1

accept 'food'

*accept 'gives cover' **or** 'somewhere for the fish
to hide'*

*do **not** accept 'makes its own food'*

(b) They both use energy. ✓ 1

They both reproduce. ✓ 1

They both grow. ✓ 1

*if more than three boxes are ticked, deduct one
mark for each incorrectly ticked box*

minimum mark zero

[5]