

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS
GCSE**

B712/02

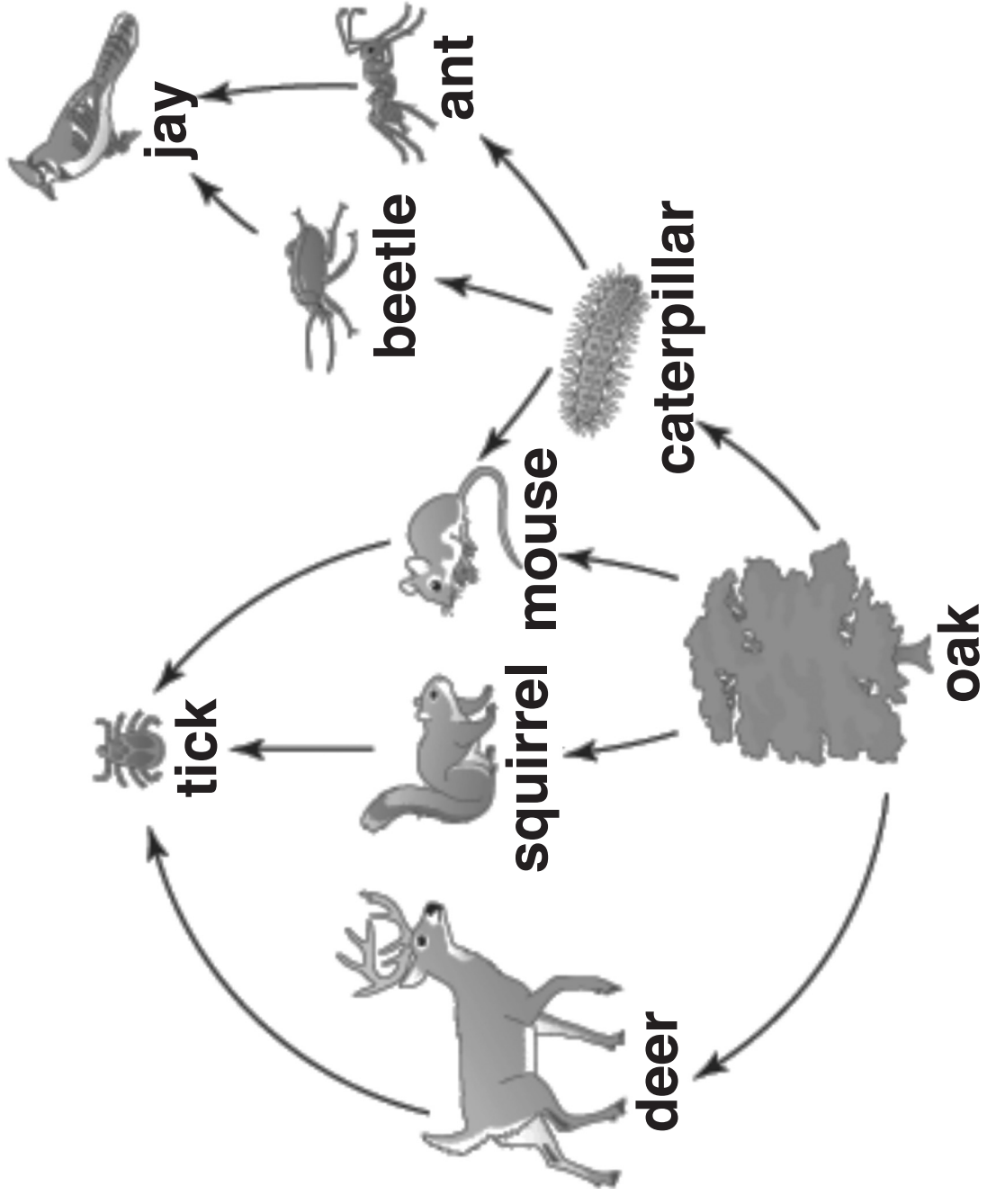
**GATEWAY SCIENCE
SCIENCE B**

**Science modules B2, C2, P2
(Higher Tier)**

**INSERT for questions 1, 2, 3, 7, 10
and 14**

**FRIDAY 5 JUNE 2015: Afternoon
MODIFIED ENLARGED 24pt**

Food web for Question 1



Graph for Question 2

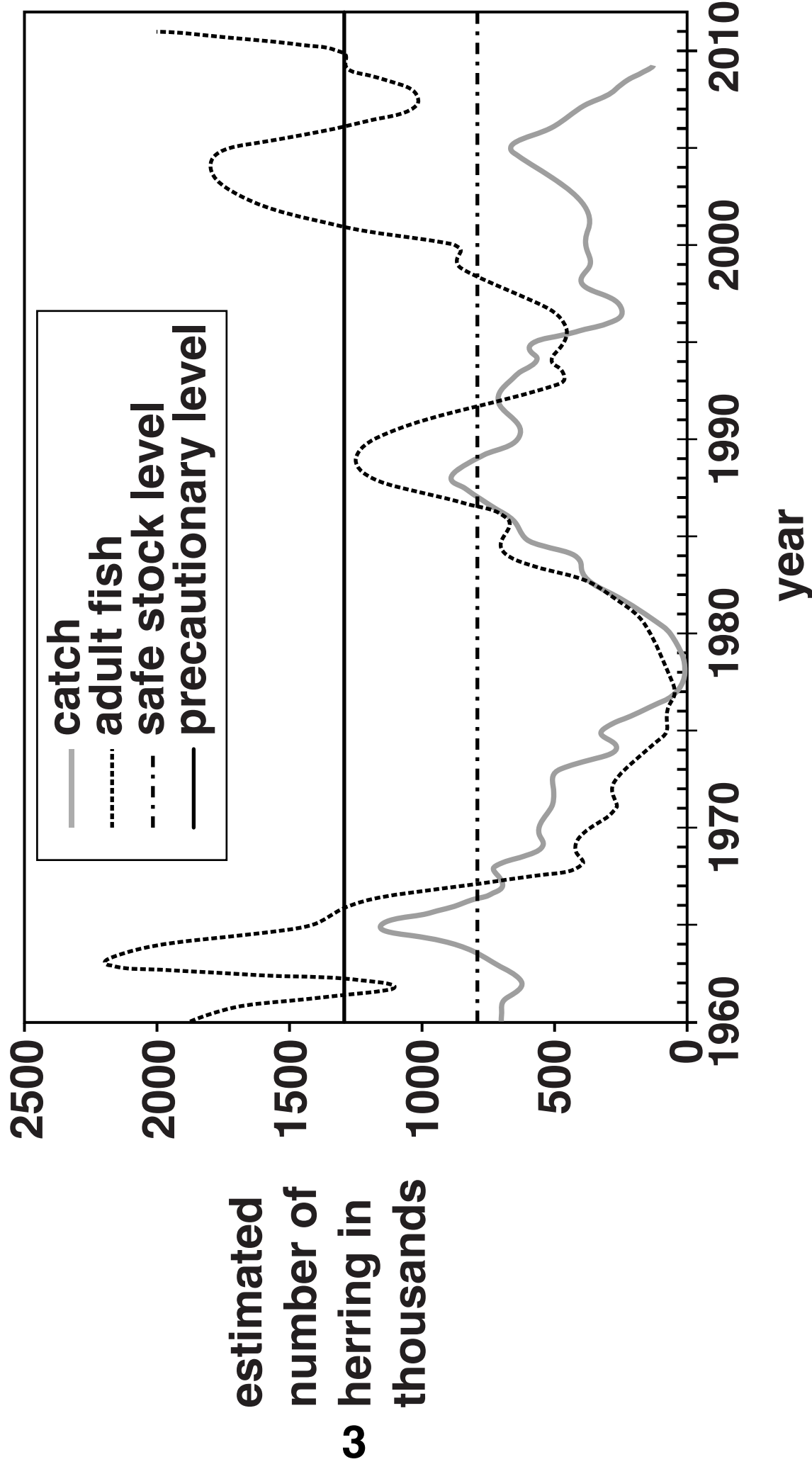


Table for Question 3

Indicator species	Number in each sample						Mean
	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5		
caddis fly lava	1	1	0	0	1		1
dragonfly nymph	1	0	0	1	0		0
flatworm	6	6	9	8	7		7
leech	7	5	9	10	7		
rat-tailed maggot	4	0	2	2	1		2
bloodworm	3	1	1	3	0		2

Table for Question 7

METAL OR ALLOY	PROPERTY				
	Melting point in °C	Density in g/cm³	Relative conductivity of heat	Relative strength	Malleability
brass	900	8.4	109	55	malleable
copper	1083	8.9	401	22	very malleable
zinc	420	7.1	116	15	brittle except at high temperatures

Table for Question 10

Appliance	Mean power in kW	Time used each week in hours	Energy used each week in kWh
Tumble dryer	2.0	2.0	4.0
Kettle	2.5	3.0	7.5
Lights	0.1	40.0	4.0
Television	0.5	5.0	
Vacuum cleaner	1.0	1.0	1.0

Table for Question 14

Player	Body fat percentage			Muscle percentage		
	Before	After	Difference	Before	After	Difference
A	25.6	20.2	-5.4	56.6	61.0	+4.4
B	16.5	15.9	-0.6	59.7	62.5	+2.8
C	22.5	20.1	-2.4	52.6	54.4	+1.8
D	13.6	11.9	-1.7	60.0	63.4	+3.4
E	25.5	22.4	-3.1	54.6	57.8	+3.2

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