

Text Instructions

1. Annotations and abbreviations

Annotation in scoris	Meaning
✓and *	Meaning
BOD	Benefit of doubt
FT	Follow through
ISW	Ignore subsequent working
M0, M1	Method mark awarded 0, 1
A0, A1	Accuracy mark awarded 0, 1
B0, B1	Independent mark awarded 0, 1
SC	Special case
^	Omission sign
MR	Misread
Highlighting	
Other abbreviations in	Meaning
mark scheme	
E1	Mark for explaining a result or establishing a given result
dep*	Mark dependent on a previous mark, dica ed by *
cao	Correct answer only
oe	Or equivalent
rot	Rounded or truncated
soi	Seen or implied
www	Without wrong working
AG	Answer given
awrt	Anything which nds to
BC	By Calculator
DR	This question included the instruction: In this question you must show detailed reasoning.

2. Subject-specific Marking Instructions for A Level Mathematics A

- a Annotations should be used whenever appropriate during your marking. The A, M and B annotations must be used on your standardisation scripts for responses that are not awarded either 0 or full marks. It is vital that you annotate standardisation scripts fully to show how the marks have been awarded. For subsequent marking you must make it clear how you have arrived at the mark you have awarded.
- An element of professional judgement is required in the marking of any written paper. Remember that the mark scheme is designed to assist in marking incorrect solutions. Correct solutions leading to correct answers are awarded full marks but work must not be judged on the answer alone, and answers that are given in the question, especially, must be validly obtained; key steps in the working must always be looked at and anything unfamiliar must be investigated thoroughly. Correct but unfamiliar or unexpected methods are often signalled by a corec result following an apparently incorrect method. Such work must be carefully assessed. When a candidate adopts a method which does not correspond the mark scheme, escalate the question to your Team Leader who will decide on a course of action with the Principal Examiner.

 If you are in any doubt whatsoever you should contact your Team Leader.
- c The following types of marks are available.

Μ

A suitable method has been selected and *applied* in a manner which shows that the method is essentially understood. Method marks are not usually lost for numerical errors, algebraic slips or errors in units. However, it is not usually ufficient for a candidate just to indicate an intention of using some method or just to quote a formula; the formula or idea must be applied to the specific problem in hand, e.g. by substituting the relevant quantities into the formula. In some cases the nature of the errors allowed for the award of an M mark may be specified.

Α

Accuracy mark, awarded for a correct answer or intermediate step correctly obtained. Accuracy marks cannot be given unless the associated Method mark is earned (or implied). Therefore M0 A1 cannot ever be awar ed.

В

Mark for a correct result or statement indepe nt of Method marks.

Ε

Mark for explaining a result or establishing a given result. This usually requires more working or explanation than the establishment of an unknown result.

Unless otherwise indicated, marks once gained cannot subsequently be lost, e.g. wrong working following a correct form of answer is ignored. Sometimes this is reinforced in the mark scheme by the abbreviation isw. However, this would not apply to a case where a candidate passes through the correct answer as part of a wrong argument.

- d When a part of a question has two or more 'method' steps, the M marks are in principle independent unless the scheme specifically says otherwise; and similarly where there are several B marks allocated. (The notation 'dep*' is used to indicate that a particular mark is dependent on an earlier, asterisked, mark in the scheme.) Of course, in practice it may happen that when a candidate has once gone wrong in a part of a question, the work from there on is worthless so that no more marks can sensibly be given. On the other hand, when two or more steps are successfully run together by the candidate, the earlier marks are implied and full credit must be given.
- The abbreviation FT implies that the A or B mark indicated is allowed for work correctly following on from previously incorrect results. Otherwise, A and B marks are given for correct work only differences in notation are of course permitted. A (accuracy) marks are not given for answers obtained from incorrect working. When A or B marks are awarded for work at an intermediate stage of a solution, there may be various alternatives that are equally acceptable. In such cases, what is acceptable will be detailed in the mark scheme. If this is not the case please, escalate the question to your Team Leader who will decide on a course of action with the Principal Examiner.

 Sometimes the answer to one part of a question is used in a later part of the same question. In this case, A marks will often be 'follow through'. In such cases you must ensure that you refer back to the answer of the previous part question evin if the image zone. You may find it easier to mark follow through questions candidate-by-candidate rather than question-by-uestion
- Unless units are specifically requested, there is no penalty for wrong or missing units a long as the answer is numerically correct and expressed either in SI or in the units of the question. (e.g. lengths will be assumed to be in metres units in a long as the answer is numerically correct and expressed either in SI or in the units of the question. (e.g. lengths will be assumed to be in metres units in a long as the answer is numerically correct and expressed either in SI or in the units of the question. (e.g. lengths will be assumed to be in metres units in a long as the answer is numerically correct and expressed either in SI or in the units of the question all the lengths are in km, when this would be assumed to be the unspecification is usually only penalised where the scheme explicitly says so. When a value is given in the paper only accept an answer correct to at least as many significant figures as the given value. This rule should be applied to each case. When value is not given in the paper accept any answer that agrees with the correct value to 2 s.f. Follow through should be used so that only one mark is lost for a ach distinct accuracy error, except for errors due to premature approximation which should be penalised only once in the examination. The e is no penalty for using a wrong value for g. E marks will be lost except when results agree to the accuracy required in the question.
- g Rules for replaced work: if a candidate attempts a question more tha once, and indicates which attempt he/she wishes to be marked, then examiners should do as the candidate requests; if there are two or more a temp s at a question which have not been crossed out, examiners should mark what appears to be the last (complete) attempt and ignore the oth rs. NB Follow these maths-specific instructions rather than those in the assessor handbook.
- For a genuine misreading (of numbers or s mbols) whic is such that the object and the difficulty of the question remain unaltered, mark according to the scheme but following through from the ca didate' da a. A penalty is then applied; 1 mark is generally appropriate, though this may differ for some units. This is achieved by withholding one A mark in the question. Marks designated as cao may be awarded as long as there are no other errors. E marks are lost unless, by chance, the given results are establised by equivalent working. 'Fresh starts' will not affect an earlier decision about a misread. Note that a miscopy of the candidate's own working is not a misread but an accuracy error.
- i If a calculator is used, some answers may be obtained with little or no working visible. Allow full marks for correct answers (provided, of course, that there is nothing in the wording of the question specifying that analytical methods are required). Where an answer is wrong but there is some evidence of method, allow appropriate method marks. Wrong answers with no supporting method score zero. If in doubt, consult your Team Leader.
- j If in any case the scheme operates with considerable unfairness consult your Team Leader.

	Questio	n Answer	Marks	AO	Guidanc	ee
1		$x^2 + 8x + (x - 10)^2 = 84$	M1	1.1a	Substitute the linear equation into the quadratic	OR M1 $(y+10)^2 + 8(y+10) + y^2 = 84$
		$2x^2 - 12x + 16 = 0$	A1	1.1	Correctly simplified answer	A1 $2y^2 + 28y + 96 = 0$
		x = 2, x = 4	A1	1.1	BC, but allow by any valid method	A1 <i>y</i> = -8, <i>y</i> = -6
		x=2 and $y=-8$	A1	1.1	Values should be paired correctly	
		x = 4 and $y = -6$	[4]			
2	(a)	$\overrightarrow{OM} = \frac{1}{2} (\overrightarrow{OC} + \overrightarrow{OB}) = 3\mathbf{i} - 2\mathbf{j} + 2\mathbf{k}$	M1	1.1	Att mpt to find \overrightarrow{OM}	
		$\left \overrightarrow{OM} \right = \sqrt{3^2 + (-2)^2 + 2^2} = \sqrt{9 + 4 + 4} = \sqrt{17}$	E1	2.1	AG	
			[2]			
2	(b)	$\overrightarrow{BC} = 8\mathbf{i} - 4\mathbf{j} - 8\mathbf{k}$	M1	1.1		
		$\overrightarrow{OD} = \overrightarrow{OA} + \overrightarrow{AD} = \overrightarrow{OA} + \overrightarrow{BC}$	E1	2.4	Express \overrightarrow{OD} in terms of known	
					vectors	
		$\overrightarrow{OD} = 3\mathbf{i} - 4\mathbf{j} + 2\mathbf{k} + 8\mathbf{i} - 4\mathbf{j} - 8\mathbf{k}$	E1	2.1	AG An intermediate step must be	
		$=11\mathbf{i}-8\mathbf{j}-6\mathbf{k}$			seen	
			[3]			
3	(a)	Coordinates of vertices seen at $(0, 0)$, $(-2, -2)$ and	B1	1.1	Vertices must be clearly shown	
		(2, 1)	_			
	(a.)		[1]	4.4		
3	(b)	Coordinates of vertices seen at $(2, 1)$, $(3, 2)$ and $(1, -1)$	M1	1.1	Clear attempt to translate graph to the right and to translate it vertically	
		(-, -)			upwards	
			A1	1.1	All vertices correct	
			[2]			

	Question	Answer	Marks	AO	Guidanc	e
4	(a)	$r\theta = 15$	B1	1.1		
		$\frac{1}{2}r^2\theta = 45$	B1	1.1		
		$\frac{1}{2}r(15) = 45$	M1	3.1a	Accept any method for solving the equations simultaneously	
		$r = 6$ and $\theta = 2.5$	A1	1.1		
			[4]			
4	(b)	$\frac{1}{2}(6)^2\sin\left(\frac{5}{2}\right)$	B1FT	1.1	FT their r and θ	
		$45 - \operatorname{their} \frac{1}{2} (6)^2 \sin \left(\frac{5}{2} \right)$	M1	1.1		
		$34.2 (cm^2)$	A1FT	1.1	FT th ir r and θ	
			[3]			
5		DR				
		$\log 3^{2x+1} = \log 4^{100}$	*M1	1 1a	Correctly introduce logs (can use any base, if consistent)	OR M1 $\log_3 3^{2x+1} = \log_3 4^{100}$
		$(2x+1)\log 3 = \log 4^{100}$	A1	1.1	Obtain linear equation in x , with logarithm(s) allow $2x + 1 \log 3 = \log 4^{100}$	A1 $2x + 1 = \log_3 4^{100}$
		2x+1=126(.18)	dep M1	1.1	anow 2x + 110g5 - 10g4	
		x = 62.6	A1	1.1	cao	
			[4]			
6		Assume that there is a greatest e n positiv	*E1	2.1	Proof must start with an assumption	
		integer $N = 2k$			for contradiction	
		N+2=2k+2=2(k+1)	M1	2.1		
		Which is even and $N+2>N$	dep*E1	2.4	There must be a statement denying	
		This contradicts the assumption			the assumption for the final E1	
		Therefore there can be no greatest even positive				
		integer				
			[3]			

	Question	Answer	Marks	AO	Guidanc	ee
7	(a)	Identify AP with $a = 5000$ and $d = 1500$	M1	3.1b	Identification recognised by an attempt at the sum formula or <i>n</i> th term formula for an AP	
		$\frac{n}{2}(2(5000) + (n-1)1500)$				
		= n(750n + 4250)	A1 [2]	1.1	Or $750n^2 + 4250n$	
7	(b)	$\frac{5000(1-(0.9)^n)}{1-0.9}$	M1	3.1b	Identificatio recognised by an attempt a he sum formula with n , $n-on+1$ or with a positive sign in num or	
		Obtain $50000(1-(0.9)^n)$	A1 A1 [3]	3 1b 1 1	Obtain correct unsimplified sum Or 50000 – 50000(0.9) ⁿ	
7	(c)	Obtain $750n^2 + 4250n - 385000 = 0$	MI	3 1b	Equate to 385 000 and solve a 3 term quadratic = 0	OR M1 For writing down and summing the total profit for at least the first four years (may be implied BC)
		$n = 20 \text{ or } n = -\frac{77}{3}$	A1	1.1	BC both required Allow different methods for solving the quadratic	A1 For finding that the total is equal to 385 000 for $n = 20$
		State 20 years	A1 [3]	3.4		A1 state 20 years
7	(d)	Business A's profits continue to grow Business B's profits eventually plateau at £50 000 as $(0.9)^n$ tends to 0 with large enough n	E1 E1	3.4 3.2a	Some mention is required about the effect of $(0.9)^n$	

H240/01 Mark Scheme June 20XX

	Questio	n	Answer	Marks	AO	Guidano	ee
8	(a)		$\frac{2\tan\theta}{1+\tan^2\theta} = \frac{2\sin\theta}{\cos\theta} \div \sec^2\theta$	B1	2.1	Use $1 + \tan^2 \theta = \sec^2 \theta$ and $\tan \theta = \frac{\sin \theta}{2}$	
			$= \frac{2\sin\theta\cos^2\theta}{\cos\theta}$	M1	2.1	$\cos \theta$ Express LHS in terms of $\sin \theta$ and $\cos \theta$	M0 for attempts to rearrange to solve an equation
			$= 2\sin\theta\cos\theta = \sin 2\theta$	A1 [3]	2.2a		
8	(b)		DR $\sin 2\theta = 3\cos 2\theta$ so $\tan 2\theta = 3$	B1	2.2a	Use the r sult of (a) or otherwise achi ve an equation in tan only	OR B1 for squaring both sides and achieving an equation in either sin or cos only
			$\theta = \frac{1}{2} \tan^{-1} 3$ oe 0.625, 2.20	M1 A1 [3]	1	Use correct order of operations to solve, must be shown Both values required. May be given to 3 s.f. or better (0.624523, 2.195319), or both solutions in exact form $\frac{1}{2} \tan^{-1} 3$, $\frac{1}{2} \tan^{-1} 3 + \frac{1}{2} \pi$	For answers alone award no marks

	Questio	on Answer	Marks	AO	Guidano	ee
9	(a)	$f'(x) = 3x^2 - 2x - 5$	B1	1.1		
		$x_{n+1} = x_n - \frac{x_n^3 - x_n^2 - 5x_n + 10}{3x_n^2 - 2x_n - 5}$	M1	1.1	Substitute into correct formula for Newton-Raphson	
		$x_{n+1} = 3x_n^3 - 2x_n^2 - 5x_n - (x_n^3 - 3x_n^2 - 2x_n^2 - 3x_n^2 - $	$\frac{-x_n^2 - 5x_n + 10}{-5} = \mathbf{E1}$	2.1	AG a correct intermediate step leading to the given answer is required	
		$J_{N_n} = J_{N_n} = J_{N_n}$	[3]			
9	(b)	$x_2 = -2.607$	B1	1.1	BC	
		$x_3 = -2.535$			All three values must be given to 4	
		$x_4 = -2.533$			significant figures.	
		1	[1]			
9	(c)	f(-2.5325) and $f(-2.5335)$	M1	11	Accept other alternative values which would confirm α as a root correct to 4 s f.	
			(2.5325) + 10 = A	2.1	At least the result of evaluation must be shown	
		$(-2.5335)^{3} - (-2.5335)^{2} - 5(-2.5335)^{2} - 5(-2.5335)^{2}$ -0.0127017 Since $f(-2.5325) > 0$ and $f(-2.5325) > 0$ and $f(-2.5325) > 0$		2.4	The change of sign must be pointed to	
			[3]			
9	(d)	$3(-1)^2 - 2(-1) - 5 = 0$	B1	2.1		
		Since the fraction is undefined a undefined	at $x = -1$, x_2 is E1 [2]	1.2	Accept references to a stationary point of the function	or the tangent to the curve being horizontal

	Question	n Answer	Marks	AO	Guidance
10	(a)	Attempt use of product rule	M1	1.1a	Award for sight of two terms
		Obtain $ln(2y-7)$	A1	1.1	
		Obtain + $\frac{2(y+5)}{2y-7}$	A1	1.1	
			[3]		
10	(b)	$(y+5)\ln(2y-7)=0$ y=-5 or y=4	M1	1.1	Substitute $x = 0$ and attempt to solve
		y = -5 or y = 4			
		Substitute $y = 4$ into $\frac{dx}{dy} (= \ln 1 + 18)$	M1	3.1a	May attempt to form $\frac{dy}{dx}$ by
					a temp ing to form the reciprocal.
					Allow any attempt however poor
		Obtain $\frac{dy}{dx} = \frac{1}{18}$	A1	1.1	
		Substitute $y = -5$ into $\frac{dx}{dy}$ (or x)	M1	2.1	Do not allow ln -17
		and indicate that $\ln(-17)$ does not exist	A1	2.3	May state that the ln graph does not
					exist for negative values or at (0,
			[5]		-17)

	Questio	n Answer	Marks	AO	Guidanc	e
11	(a)	$fg(x) = (6x-2a)^2 + 8a(6x-2a) + 4a^2$	B1	1.1	Accept unsimplified form	OR
		$=36x^2 + 24ax - 8a^2$				M1 Complete a square on
		$=36x^{2}+24ax-8a^{2}$				f(x)
		(fg)'(x) = 72x + 24a = 0	M1	1.1	Differentiate their $fg(x) = 0$ or use	A1 Obtain $(x+4a)^2 - 12a^2$
					square completion:	, ,
					$4(9x^2 + 6ax - 2a^2) = 4(3x + a)^2 - 4a^2$	
					$\begin{vmatrix} -8a^2 \end{vmatrix}$	
		a siving	M1	2.1	Solve for <i>x</i> and ubstitute their value	M1 Substitute $g(x)$ and
		$x = -\frac{a}{3}$, giving			for x in fg()	simplify
		$fg\left(-\frac{a}{3}\right) = (-4a)^2 + 8a(-4a) + 4a^2 = -12a^2$				
		Stationary point of fg is a minimum so range of	E1	2 a	Must mention minimum	E1 Obtain $(6x + 2a)^2 - 12a^2$
		$fg(x) \ge -12a^2$ or $\left[-12a^2\right]$			Do not accept $x \ge -12a^2$	or equivalent form and state
			[4]			$fg(x) \ge -12a^2$
11	(b)	$144 + 48a - 8a^2 = 144$	M1	3.1a	Substitute $x = 2$ in their $fg(x)$ and	
					equate to 144	
			M1	1.1	Attempt to solve their equation	
		a = 6	A1	1.1	Do not give this mark if $a = 0$ also	
					given as an answer	
			[3]			
11	(c)	Each y value in the range $(y > -12a^2)$	M1	2.4	An example or graph must be given,	
		corresponds to two x values, e.g. corresponds to			or a clear explanation that quadratic	
		x = 1.46 or -5.46			functions on the real numbers are one-to-many.	
		Therefore fg has no inverse	E 1	2.2a	one to many.	
			[2]			

	Question	Answer	Marks	AO	Guidan	ce
12	(a)	Use $\frac{dy}{dx} = \frac{dy}{d\theta} \div \frac{d\theta}{dx}$	M1	1.1a		
		Obtain $\frac{-3\cos\theta}{2\sin\theta}$	A1 [2]	1.1		
12	(b)	$(y - 3\sin\theta) = \frac{-3\cos\theta}{2\sin\theta}(x - 2\cos\theta)$	M1	3.1a	Attempt equation of straight line in any unsimplified form Accept x, y confu ion	OR M1 When $\theta = \theta_Q$, gradient of curve is given by $\frac{-3\cos\theta_Q}{2\sin\theta_Q}$
		$2y\sin\theta - 6\sin^2\theta = -3x\cos\theta + 6\cos^2\theta$	M1	1.1	Sim lify their equation and use os $\theta + \sin \theta = 1$	M1 The gradient of the line through $(2,6)$ and $(2\cos\theta_Q, 3\sin\theta_Q)$ is $\frac{3\sin\theta_Q - 6}{2\cos\theta_Q - 2}$
		$2y\sin\theta + 3x\cos\theta = 6$	A1FT	1.1		M1 Equate and clear fractions
		$12\sin\theta + 6\cos\theta = 6 \Rightarrow 2\sin\theta + \cos\theta = 1$	E1 [4]	2.1	Substitute (2, 6) and simplify to AG	E1 Obtain AG
12	(c)	Use $R\sin(\theta + \alpha)$ on $2\sin\theta + \cos\theta$ $R\sin\alpha = 1$, $R\cos\alpha = 2$ Obtain $\alpha = 0.4636$ and $R = \sqrt{5}$	M1	3.1a	Should go as far as finding R and α Allow alternative forms	OR M1 Square and use $\sin^2 \theta + \cos^2 \theta = 1$ A1 $4\sin^2 \theta + 4\sin \theta (1 - 2\sin \theta)$ $+(1-\sin^2 \theta) = 1$
		Use correct order of operations to solve $\sqrt{5} \sin(\theta + 0.4636) = 1$	M1	1.1	Attempt to solve their $R\sin(\theta + \alpha)$	M1 Simplify and solve $5\sin^2\theta - 4\sin\theta = 0$
		Obtain 0 Obtain 2.21	B1 A1 [5]	2.2a 1.1	Or better (2.214345)	

H240/01 Mark Scheme June 20XX

Question	Answer	Marks	AO	Guidanc	ee
13	$ \begin{array}{c} \mathbf{DR} \\ 3x^2 + 3y^2 \frac{\mathrm{d}y}{\mathrm{d}x} \end{array} $	B1	1.1	Attempt LHS derivative	Two non-constant terms
		M1	3.1a	Attempt product rule on RHS	
	$=3y+3x\frac{\mathrm{d}y}{\mathrm{d}x}$	A1	1.1	Correct on RHS	
	To find the stationary points let $\frac{dy}{dx} = 0$	E1	2.1	Explicitly s t the r derivative equal to zero	
	$y = x^2$	M1	3.1a	Attempt t solv for their y or their x	Alternate $x = y^{\frac{1}{2}}$
	$x^{3} + (x^{2})^{3} = 3x(x^{2}) + 35$ $x^{6} - 2x^{3} - 35 = 0$	M1	2.1	Subs tute to get their polynomial in on variable	Alternate $y^3 - 2y^{\frac{3}{2}} - 35 = 0$
	Let $p = x^3$, then $p^2 - 2p - 35 = 0$	M1	2.1	Transform their disguised quadratic	
	p = 7 or -5	M1	1.1	Solve their 3 term quadratic	
	$\Rightarrow x = \sqrt[3]{7} \text{ or } x = -\sqrt[3]{5}$	A	3.2a	For both correct	A0 for decimal answer
		[9]			

(Question	Answer	Marks	AO	Guidance
14	(a)	E.g. $\int \frac{50}{50n - n^2} dn = 0.1 \int dt$	M1	1.1a	Attempt to separate variables
			M1	3.1a	Attempt to use partial fractions on LHS
		$\int \left(\frac{1}{n} + \frac{1}{50 - n}\right) \mathrm{d}n = 0.1 \int \mathrm{d}t$	A1	1.1	
		$\ln n - \ln \left(50 - n \right) = 0.1t + c$	M1	3.1a	Integrate bo h sid s providing LHS contains a ln expression
		$ \ln\frac{n}{50-n} = 0.1t + c $	M1	1.1	Use og law on LHS
		$\frac{n}{50-n} = Ae^{0.1t}$	M1	3.1a	Apply inverse of ln and deal with $+c$ Accept e^c oe
			M1	11	Make <i>n</i> the subject of their
					expression
		$n = \frac{50Ae^{0.1t}}{1 + Ae^{0.1t}}$	A1	11	Accept e ^c oe
		$n = \frac{50A}{e^{-0.1t} + A}$	E1	1.1	Multiply numerator and denominator
		$n - \frac{1}{e^{-0}} \frac{1}{1} + A$			by e ^{-0 1t} . AG
			[9]		
14	(b)	As t becomes large, $e^{-0.1t}$ becomes approximately	E1	3.4	50 seen www
		0, A cancels and so 50 birds ar expe ed the			
		long term	[1]		
14	(c)		[*]		
		E.g. Only allow integer values of t	E1	3.5c	For one refinement
		E.g. Include an initial value for A			
		E.g. John could record the maximum number of			
		each species that he sees.	[1]		
			[1]		

	Question		Answer	Marks	AO	Guidance
14	(d)		E.g. The model is continuous not discrete E.g. It treats all birds of any species as equivalent, but they will respond to the food in different ways.	E1	3.5a	
				[1]		

Assessment Objectives (AO) Grid

Question	AO1	AO2	AO3 (PS)	AO3 (M)	Total
1	4				4
2a	1	1			2
2b	1	2			3
3a	1				1
3b	2				2
4a	3		1		4
4b	3				3
5	4				4
6		3			3
7a	1		1		2
7b	1		2		3
7c	1		1	1	3
7d			1	1	2
8a		3			3
8b	1	2		4	3
9a	2	1			3
9b	1				1
9c	1	2			3
9d	1	1			2
10a	3				3
10b	2	2	1		5
11a	2	2			4
11b	2		1		3
11c		2			2
12a	2				2
12b	2	1	1		4
12c	3	1	1		5
13	3	3	3		9
14a	6		3		9
14b				1	1
14c				1	1
14d				1	1
Totals	53	26	16	5	100

PS = Problem Solving M = Modelling

Summary of Updates

Date	Version	Change
October 2018	2	We've reviewed the look and feel of our papers through text, tone, language, images and formatting. For more information please see our assessment principles in our "Exploring our question papers" brochures on our website.