

**Geography B**

General Certificate of Secondary Education

Unit **B561/01**: Sustainable Decision Making (SDM)

**Mark Scheme for January 2013**

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This mark scheme is published as an aid to teachers and students, to indicate the requirements of the examination. It shows the basis on which marks were awarded by examiners. It does not indicate the details of the discussions which took place at an examiners' meeting before marking commenced.

All examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes should be read in conjunction with the published question papers and the report on the examination.

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## Annotations

Annotation	Meaning
	Unclear
	Benefit of Doubt
	Cross
	Development
	Irrelevant Material
	Level 1
	Level 2
	Level 3
	Benefit of Doubt Not Given
	Tick
	Omission Mark
	Left Bracket
	Right Bracket

Question		Answer	Marks	Guidance
	1 (a)	Rural	1	Accept any indication of the right answer
	(b) (i)	Accept 28 or 29 ONLY	1	
	(ii)	Decreases	1	If 2 or more boxes ticked score zero
	(iii)	Accept 2008, 2009 or 2010 ONLY	1	If a range stated – must be between 2008 and 2010. Any date given outside this range scores zero
	2 (a) (i)	45–64	1	
	(ii)	65+ , 65 and over, Over 65	1	<b>Not The Elderly</b>
 	(b)	Reasons could relate to issues such as <ul style="list-style-type: none"> <li>• Job availability</li> <li>• Social life</li> <li>• Affordability of Housing (NOT size of homes)</li> <li>• Access to Education</li> <li>• Access to Health Care</li> <li>• Access to Leisure</li> <li>• Access to Transport</li> <li>• Access to Shops</li> </ul> N.B. Accept “better” as an alternative to “Access to” <i>eg better health care, better shops</i>	4	2 marks for 2 different reasons plus 2 for development  Assume answer is related to under 45’s living in urban areas unless otherwise stated  Accept any sound answer that explains why people under 45 prefer to live in urban areas and/or why people over 45 prefer the countryside <i>eg</i> <i>Under 45’s need jobs (✓) more jobs in urban areas (dev)</i> <i>Under 45’s have children, who need schools (✓)more schools in urban areas (dev)</i>  2 development points can come from the same reason Development points have to be different  <b>Do not credit Quality of Life / Standard of Life / Life Style</b>

Question		Answer	Marks	Guidance
3  	(a)	<p><i>Reasons</i></p> <ul style="list-style-type: none"> <li>• “Not in my back yard”/explanation of what ‘nimbyism’ is/people do not want them where they live</li> <li>• Objection to planning applications</li> </ul> <p><i>Reasons and/or Development</i></p> <ul style="list-style-type: none"> <li>• Noise/Air pollution</li> <li>• People don’t want their peace and quiet disturbed</li> <li>• People don’t want their view spoiled/Visual pollution</li> <li>• People don’t want the wildlife disturbed/loss of habitats</li> <li>• Increased traffic/congestion</li> <li>• Extra housing may cause house prices to fall</li> <li>• May cause pressure on local amenities</li> <li>• Loss of community spirit/spoil village life</li> </ul>	3	<p>Any 3 sound reasons as to why local people might object to new housing developments, including what ‘nimbyism’ is</p> <p>May be 3 separate points or may be developed</p> <p>Accept any 3 valid reasons and/or development</p> <p><b>Do not credit pollution/overcrowding on its own</b></p>
  	(b)	<p>Reasons such as:</p> <ul style="list-style-type: none"> <li>• Population has grown/migration to UK/high birth rate</li> <li>• Divorces are splitting households</li> <li>• House building has slumped to its lowest level for 90 years</li> <li>• People are living longer</li> <li>• Empty houses are too run down to be used</li> <li>• Cuts in government spending/housing targets/budgets</li> <li>• Banks not lending to building firms</li> </ul>	3	<p>Any reason from the resource or the candidates own knowledge</p> <p><b>Do not accept nimbyism/too expensive/not enough land/protests/environmentalists</b></p>

Question		Answer	Marks	Guidance
4	(a)	Any two features relating to ENERGY from the resource: <ul style="list-style-type: none"><li>• Community Scale heat sources</li><li>• Homes will have smart meters/solar panels/ wind generators</li><li>• Residents can sell surplus energy back to the national grid.</li><li>• Zero carbon buildings (shops/restaurants/schools)</li><li>• Reduced/Low carbon houses</li><li>• Charging points for electric cars</li></ul>	2	Any 2 features from the resource  <b>Not transport related points, except for Charging Points</b>

Question	Answer	Marks	Guidance
<p>(b)</p> 	<p><b>Level 3 (5–6 marks)</b> Excellent explanation of how <b>transport facilities/policies</b> in existing settlements could be made more sustainable. Written work is clearly legible and spelling, punctuation and grammar are accurate. <i>Candidate focuses on making transport facilities in settlements more sustainable and are likely to develop the explanations seen at level 2, possibly by giving examples and/or by being more comprehensive and/or emphasising sustainability</i></p> <p><b>Level 2 (3–4 marks)</b> Sound explanation of how <b>transport facilities/policies</b> in existing settlements could be more sustainable. Written work is legible and spelling, punctuation and grammar are mostly accurate. Meaning is communicated clearly. <i>Candidate is likely to show some explanation of transport facilities from Resource 4 and their own knowledge</i></p> <p><b>Level 1 (1–2 marks)</b> Simple description of some sustainable transport methods. Written work contains mistakes in spelling, punctuation and grammar, which sometimes hinder communication. <i>Candidates answer is likely to be taken exclusively from Resource 4 or may make no mention of transport facilities – focussing on a transport method (eg use cycles rather than install cycle lanes)</i></p>	6	<p>Levelled question</p> <p>Accept any viable example of <b>sustainable transport facilities</b></p> <p>If a facility is mentioned without development L1-2 marks This would still need to be developed to go to L2</p> <p><i>Facilities/Policies include:</i>  <i>Cycle Lanes</i>  <i>Park &amp; Ride</i>  <i>Bike Hire</i>  <i>Integrated Transport</i>  <i>Tram Routes</i>  <i>Charging Points</i>  <i>Car Pool Lanes</i>  <i>Car Sharing</i>  <i>Fare Reduction</i>  <i>Congestion Charging</i>  <i>Greater emphasis on public transport</i></p> <p>Even if a transport method is developed (eg electric cars, produce less CO<sub>2</sub>) this is not given above L1 as does not refer to transport facilities.</p>

Question		Answer	Marks	Guidance
5	(a)	<p><b>Level 3 (5–6 marks)</b> Excellent reasons for choice given with clear explanation of ideas. Written work is clearly legible and spelling, punctuation and grammar are accurate. <i>Candidate focuses on why their option is better and more sustainable and is likely to develop the explanations seen at level 2, possibly by giving examples or by being more comprehensive.</i></p> <p><b>Level 2 (3–4 marks)</b> Sound reason for choice given with some explanation of ideas. Written work is legible and spelling, punctuation and grammar are mostly accurate. Meaning is communicated clearly. <i>Candidate is likely to show some explanation of material from Resources.</i></p> <p><b>Level 1 (1–2 marks)</b> Limited reason for choice given with brief/limited explanation of ideas. Written work contains mistakes in spelling, punctuation and grammar, which sometimes hinder communication. <i>Candidates answer is likely to be taken exclusively from Resources.</i></p>	6	<p>Levels marked.</p> <p>For suggested content see table on Page 9. This is not intended to be definitive.</p> <p>There are no wrong options – any option with appropriate explanation is acceptable</p> <p>No advantage or disadvantage given for either option regarding the airport for 5a, c and d The airport will be lost in both options</p> <p>Loss of the airport can be credited in 5b</p> <p>Candidates can be credited for comparative comments regarding disadvantages of the other option.</p>
	(b)	<p>Gives ONE developed reason why people who already live in the area will not be happy with the development.</p> <ul style="list-style-type: none"> <li>• Spoils countryside/habitats being affected</li> <li>• Farmers lose farmland/income</li> <li>• Extra traffic on quiet/narrow country lanes – causing congestion/accidents</li> <li>• Disruption/Noise to area <i>whilst building takes place etc...</i></li> <li>• Flying club having to relocate</li> <li>• May lower the value of their houses</li> </ul>	3	<p>Point marked</p> <p>One mark for reason with 2 marks for development No credit for NIMBY's without reasons</p>

Question		Answer	Marks	Guidance
 	(c)	Suitable advantages of the other option 1 for People 1 for the Environment	4	Point marked  1 mark for People advantage 1 mark for People development  1 mark for Environment advantage 1 mark for Environment development
  	(d)	Suitable disadvantage of the rejected option	3	Point marked  One mark for reason with 2 marks for development

## APPENDIX 1

	<b>Advantages</b>	<b>Disadvantages</b>
<p><b>Option 1</b></p> <p>To allow the development of the proposed 15 000 houses in an eco-town.</p>	<ul style="list-style-type: none"> <li>• Purpose built houses can be designed to be 'green' (P/E)</li> <li>• Site large enough to develop new industrial area along with housing (P)</li> <li>• Additional/new services (P)</li> <li>• More green space for leisure (P/E)</li> <li>• New green space creates more habitats (E)</li> <li>• Creation of new public transport system (P/E)</li> <li>• Etc.</li> </ul>	<ul style="list-style-type: none"> <li>• Developing greenfield site takes up 'countryside' bad for the environment/animals/etc.</li> <li>• Loss of farmland/agricultural production</li> <li>• Cost – have to put whole new infrastructure in place</li> <li>• May not get new industries into the development and it becomes a dormitory town</li> <li>• Lower percentage of starter homes</li> <li>• New Industries may cause Air/Noise pollution</li> <li>• Etc.</li> </ul>
<p><b>Option 2</b></p> <p>To allow a much smaller development of 2 000 houses on the site of Leicester Airfield.</p>	<ul style="list-style-type: none"> <li>• Redevelopment of airport site makes the environment better (E)</li> <li>• Building on a brownfield site/area already developed takes advantage of the pre-existing infrastructure</li> <li>• Cost is lower as uses pre-existing infrastructure (P)</li> <li>• Purpose built houses can be designed to be 'green' (P/E)</li> <li>• Higher percentage of starter homes (P)</li> <li>• Surrounding green spaces retained (E)</li> <li>• Etc.</li> </ul>	<ul style="list-style-type: none"> <li>• May place burden on already stretched local services eg schools</li> <li>• Smaller area so not as many houses can be built</li> <li>• Limited new/additional services</li> <li>• Limited transport links</li> <li>• No green space for leisure</li> <li>• Traffic congestion on local roads</li> <li>• Etc.</li> </ul>

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