

**NEW YORK STATE
COMPONENT RETEST**

**ENGLISH
COMPONENT A
MODULE 4**

THURSDAY, MAY 15, 2003

**SCORING KEY
AND
RATING GUIDE**

Multiple Choice Key

1	3
2	4
3	4
4	4
5	2

COMPONENT A

(used for 2-point responses that only refer to the text)

Score Point 2

- presents a well developed paragraph
- provides an appropriate explanation
- supports the explanation with information from the text
- uses language that is appropriate
- may exhibit errors in conventions that do not hinder comprehension

Score Point 1

- provides an explanation
- or
- implies an explanation
- or
- has an unclear explanation
- and
- supports the explanation with partial or overly general information from the text
 - uses language that may be imprecise or inappropriate
 - exhibits errors in conventions that may hinder comprehension

Score Point 0

- response is off-topic, incoherent, a copy of the task and / or text, or blank
- demonstrates no understanding of the task/text
- is a personal response

COMPONENT A

(used for 2-point responses that refer to the text and graphic)

Score Point 2

- presents a well developed paragraph addressing the task
- demonstrates basic understanding of the text and graph
- supports the explanation with information from both the text and graphic
- uses language that is appropriate
- may exhibit errors in conventions that do not hinder comprehension

Score Point 1

- provides an explanation
- or
- implies an explanation
- or
- has an unclear explanation
- and
- supports the explanation with partial or overly general information from the text and / or graphic
 - uses language that may be imprecise or inappropriate
 - exhibits errors in conventions that may hinder comprehension

Score Point 0

- is off topic, incoherent, a copy of the task and / or text, or blank
- demonstrates no understanding of the task / text
- is a personal response

IMPORTANT NOTICE

Component A Module 4

The passage, “ ‘Heat Island’ Tokyo Is in Global Warming’s Vanguard” by James Brooke, copyright © 2002 by the New York Times Co., and the graphic adapted from a study by the National University of Singapore and National Parks Board, can no longer be posted on the web site because of copyright restrictions. We apologize for this inconvenience.

Multiple-Choice Questions

Directions (1–5): Select the best suggested answer to each question and write its number in the space provided on the answer sheet. The questions may help you think about ideas and information you might want to use in your written responses. You may return to these questions any time you wish.

- 1 The author develops the text primarily by
 - (1) explaining ways to develop roof gardens
 - (2) examining advantages and disadvantages
 - (3) providing an illustration of an existing program
 - (4) comparing opinions of proponents and opponents
- 2 As used in lines 4 through 5, “huge, multifaceted radiator” refers to the way modern Tokyo is
 - (1) covered with cars
 - (2) blocking sea breezes
 - (3) relying on air conditioners
 - (4) being heated both day and night
- 3 In lines 47 through 52, the author implies that the idea of rooftop gardens
 - (1) has attracted similar projects in the United States
 - (2) is an unproven approach that may not work elsewhere
 - (3) will not occur elsewhere because of the expense involved
 - (4) is drawing attention because of its promise to solve several problems
- 4 According to the text, the primary reason roof gardens are only recently being developed in Japan is
 - (1) sea breezes weren’t sufficient
 - (2) owners wanted more prestige
 - (3) the cost benefits weren’t worth the effort
 - (4) new laws and techniques made them more practical
- 5 According to the graphic, at what time would a roof garden have the greatest impact on surface temperatures of the roof?
 - (1) 6 a.m.
 - (2) 3 p.m.
 - (3) 6 p.m.
 - (4) 9 p.m.

Short-Response Questions

Directions (6–7): Write your responses to questions 6 and 7 in the space provided on the answer sheet.

6 In three to five sentences, explain the effect different roof surfaces can have on the surface temperature of the roof. Support your explanation with evidence from the text AND the graphic.

7 In three to five sentences, explain the benefits of rooftop gardens. Support your explanation with information from the text.

QUESTION #6

Component A - Module 4 / Question # 6

Different roof surfaces have different effects on roof temperatures because of the type of material the roof surface may be made of. A metal roof top would be the worst type since metals absorb so much heat.

A regular hard surface would be very hot since it too can absorb sun rays increasing temperatures. According to the graph at around 3pm a hard surface can reach up to 58°C in temperatures, however an organic surface such as shrubs can be as high as 26°C at the same time of 3pm. As stated in the article, "Plants play a crucial role in cleaning air & in cooling temperatures", so it is obvious it can help cool roof temperatures.

Score Point: 2

The response presents a well-developed paragraph that demonstrates a basic understanding of the text and the graphic. The explanation is supported with information from the graphic (at around 3 pm a hard surface can reach up to 58°C) and the text ("Plants play a crucial role . . . in cooling temperatures"). Language use is appropriate and errors in conventions do not hinder comprehension.

Component A - Module 4 - Question # 6

According to James Brooke's passage, the sun's heat is absorbed by black asphalt, cars, and black rooftops. In a study it was found that a 12 noon hard surface that is currently on most roofs rises to over 55°C while if they had a garden and planted shrubs the temperature of the surface would be at most 28°C . But if a roof garden were to be planted and only bare soil was put down, the temperature of the surface would be less than 43°C at its highest.

Score Point: 2

The response presents a well-developed paragraph that demonstrates a basic understanding of the text and the graphic. The explanation is supported with information from the text (*heat is absorbed by black asphalt, cars, and black rooftops*) and the graphic (*a 12 noon hard surface . . . rises to over 55°C and shrubs . . . the surface would be at most 28°C*). Language use is generally appropriate and errors in conventions do not hinder comprehension.

Component A – Module 4 – Question # 6

The graphic shows that shrubs and trees are most effective at lowering rooftop temperatures. A plain surface will absorb the most heat. The text says that black rooftops absorb the most heat and hold it in all day. Trees and greenery combat the absorbing of too much heat.

Score Point: 2

The response presents a well-developed paragraph that demonstrates a basic understanding of the text and the graphic. The explanation is supported with information from the graphic (*graphic shows that shrubs and trees are most effective at lowering rooftop temperatures*) and the text (*that black rooftops absorb the most heat*). Language use is appropriate and there are no errors in conventions that hinder comprehension.

Component A – Module 4 – Question # 6

Different roof surfaces can have an effect on the roof surfaces. For example, on the graph, shrubs had a 32°C difference compared to a hard surface. In fact, grass roofs save money the year around by cutting heat and cooling costs.

Score Point: 1

The response provides an unclear explanation (*roof surfaces can have an effect on the roof surfaces*) partially supported with information from the graphic (*shrubs had a 32°C difference compared to a hard surface*) and the text (*grass roofs save money the year around by cutting heat and cooling costs*). There is an insufficient amount of appropriate support for this response to receive a higher score.

Component A - Module 4 - Question # 6

The effect of different roof surfaces have on the surface temperature of the roof are that with a hard surface more heat is to be hitting the surface the greatest, with bare soil the temperature is still going to damage the surface, with turfing on a roof it's still going to damage the surface but slower, Trees would help the surface temperature but it wouldn't catch it as good as shrubs, which shrubs would cover the whole surface without damage.

Score Point: 1

The response provides an unclear explanation (*with a hard surface more heat is to be hitting the surface*), and the support, which may be referencing the graphic, is overly general (*turfing on a roof it's still going to damage the surface but slower*).

PRACTICE SET

Component A - Module 4 - Question # 6

with different roof surfaces, the
temperature will vary because of what
the roof is made of. In Japan
they have had these conclusions.

Different roof surfaces truly make a difference on the surface temperatures of the roof. Based on the graph, when the sun is at it's strongest, the best coverage for a roof to have ~~to~~ is shrubs then it goes on to other plants along with soil. The text goes on to explain that global warming is caused by the release of heat-trapping gases. And what better way to cool ~~to~~ down surfaces than by ~~a~~ ~~not~~ increasing the amount of plants. Being that plants are proven to clean the air, cool temperatures and absorb the carbon dioxide from the atmosphere rather than sending it back out into the air.

Component A - Module 4 - Question # 6

An effect of a black roof top would make a house very warm and then not be able to cool it off at night. Having a garden on your rooftop can help with the heat, it won't let a great deal of heat in so you don't have to use as much air conditioning.

Component A - Module 4 - Question # 6

Different roof surfaces can have a major effect on the surface temperature. When you have nothing but black top or concrete that attracts the heat to make everything hotter. In the graph they show to have roof gardens. Roof gardens have a great effect to prevent heat. With roof gardens the graph shows how much of the heat is actually dropped. For example with a hard surface top a 3: Pm the temperature is 58°C , with the roof garden the temperature is almost cut into half.

Different types of roof surfaces have different effects on rising heat from the pollution caused during the day. Some rooftops take in heat keeping it in the buildings, and eventually releasing it again. Others let the heat rise and it is taken away by breezes. The materials that take in the heat and store it make the buildings more heated making people frustrated which in turn makes people turn on air conditioners. This produces more rising air making conditions worse.

COMPONENT A, Module 4
ITEM 6
PRACTICE SET ANNOTATIONS

1. Score Point: 1

The response provides an explanation (*the temperature will vary because of what the roof is made of*), but lacks appropriate supporting information from the text or graphic.

2. Score Point: 2

The response presents a well-developed paragraph that demonstrates a basic understanding of the text and the graphic. It provides an explanation (*roof surfaces truly make a difference on the surface temperatures of the roof*) supported with information from the graphic (*when the sun is at it's strongest, the best coverage for a roof to have is shrubs*) and the text (*global warming is caused by the release of heat-trapping gases. And what better way to cool down surfaces then by increasing the amount of plants*). Language use is appropriate and there are no errors in conventions that hinder comprehension.

3. Score Point: 1

The response provides an explanation (*An effect of a black roof top would make a house very harm and a garden . . . can help with the heat*) supported with overly general information from the text (*wont let a great deal of heat in*) and no information from the graphic.

4. Score Point: 2

The response presents a well-developed paragraph that demonstrates a basic understanding of the text and the graphic. The explanation is supported with specific information from the text (*black top or concrete that attracts the heat*) and the graphic (*a hard surface top a 3: Pm the temperature is 58°C, with the roof garden the temperature is almost cut into half*). Language use is generally appropriate, but includes some sentence errors (*In the graph they show to have roof gardens*), and errors in conventions that do not hinder comprehension.

5. Score Point: 1

The response provides an explanation (*Different types of roof surfaces have different effects on rising heat*) supported with overly general information from the text (*some rooftops take in heat keeping it in the buildings*) and no information from the graphic.

QUESTION #7

Component A – Module 4 – Question #7

Something as simple as a roof top garden has many benefits. Besides turning carbon dioxide into oxygen, roof gardens also reduce temperatures in the summer and insulate the building during the winter. Roof gardens are also now seen as a show of prestige making them very popular. In lines 65-67 in the text, the author shows the benefits from an architect's viewpoint. Roof gardens have played a huge role in cooling and oxygenated island cities like Tokyo.

Score Point: 2

The response presents a well-developed paragraph that demonstrates a basic understanding of the text. The explanation is supported with information from the text (*Roof gardens are also now seen as a show of prestige and the author shows the benefits from an architect's viewpoint*). Language use is appropriate and the errors in conventions do not hinder comprehension.

Component A - Module 4 - Question # 7

Rooftop gardens have many benefits. Some people plant them just for prestige and aesthetics, but they have many other, more serious, benefits. For instance, architects contend that a living grass covering protects roofs from sun damage and cracking. They also save money by cutting heating and cooling costs year round.

Score Point: 2

The response presents a well-developed paragraph that demonstrates a basic understanding of the text. The explanation is supported with information from the text (*Some people plant them just for prestige and aesthetics and architects contend that a living grass covering protects roofs*). Language use is appropriate and there are no errors in conventions that hinder comprehension.

Component A – Module 4 – Question #7

The benefits of having a rooftop garden are that they clean the air and they would help cooling the temperature. The plants would absorb the carbon dioxide from the atmosphere. Protects roofs from sun damage and cracking. By using a rooftop garden it would help save money.

Score Point: 2

The response presents a well-developed paragraph that demonstrates a basic understanding of the text. The explanation is supported with information from the text (*plants would absorb the carbon dioxide* and *Protects roofs from sun damage and cracking*). Language use is generally appropriate and the errors in conventions do not hinder comprehension.

Component A - Module 4 - Question # 7

A living grass covering actually protects roofs from sun damage and cracking. Grass roofs save money the year round by cutting heating and cooling costs. The increase in summer temperature in Tokyo can be controlled by roof gardens.

Score Point: 1

The response provides three benefits (protection of roofs, saving money, and controlling temperatures), but lacks sufficient support to receive a higher score.

Component A – Module 4 – Question # 7

There are many benefits to rooftop gardens. One of them is that gardens both insulate and clean the air. As seen in the text air conditioners were used less in buildings w/ rooftop gardens.

Score Point: 1

The response explains that there are many benefits, but provides only partial information for support (*gardens . . . insulate and air conditioners were used*). More explanation and information from the text are needed for a higher score.

PRACTICE SET

Component A - Module 4 - Question # 7

A benefit of having a rooftop garden would be cheaper heating and cooling costs. It would also make more oxygen for the city. Another benefit would be to keep the roof from cracking and keep the city looking good.

Component A - Module 4 - Question # 7

The benefits of roof top gardens are pretty high in number. Not only do these roof gardens help the state of the city, they look beautiful. The Gardens will help lower temps. of the city making it more bearable. It also helps by cutting "heating + cooling costs", making it easier on civilian pockets. According to the article, "they contend that a living grass covering actually protects roofs from sun damage and cracking..." Probably the best benefit is the tax breaks also offered.

Component A - Module 4 - Question # 7

The benefits of rooftop gardens are that they help clean air by absorbing carbon dioxide in the atmosphere. The disadvantages are just the cost and upkeep of these rooftop gardens.

Component A - Module 4 - Question # 7

The benefits of the rooftop gardens are that it first would lower the potential of global warming. Second benefit in many buildings will save money with less use of air conditioners. The benefits of rooftop gardens are helpful for Tokyo and the people learning there starting to cool down. Another benefit is the attraction that rooftop gardens will have from people in Tokyo. The more attraction the more rooftop gardens in Tokyo will have.

Component A - Module 4 - Question #7

The rooftop garden will deflect
heat away from the building.
It will also make a peaceful
environment.

COMPOTENT A, Module 4
ITEM 7
PRACTICE SET ANNOTATIONS

1. Score Point: 1

The response provides benefits, but lists them (*cheaper heating and cooling costs, make more oxygen, keep the roof from cracking*) rather than explaining them. The benefits are based on the text but more explanation is needed for a higher score.

2. Score Point: 2

The response presents a well-developed paragraph that demonstrates a basic understanding of the text. The explanation (*roof gardens help the state of the city, they look beautiful*) is supported with information from the text (*cutting "heating and cooling costs" and living grass covering actually protects roofs*). Language use is appropriate and there are no errors that hinder comprehension.

3. Score Point: 1

The response briefly explains one benefit (*help clean air by absorbing carbon dioxide*), but then includes disadvantages (cost and upkeep) which is not part of the task. More explanation of benefits is needed for a higher score.

4. Score Point: 2

The response presents a well-developed paragraph that demonstrates a basic understanding of the text. Benefits are explained (lower global warming, saving money, gardens as an attraction) using information from the text for support (*less use of air conditioners and the attraction the rooftop gardens will have from people in Tokyo*). The response even draws a conclusion (*The more attraction the more rooftop gardens*) based on text information. Imprecision of language (*Second benefit in many buildings will save money*), faulty sentence formation, and errors in conventions (*leaving* for "living") do not hinder comprehension.

5. Score Point: 1

The response states only two benefits (*deflect heat away from building and make a peaceful environment*) and lacks the appropriate explanation and support from the text necessary for a higher score. The response is too brief to demonstrate a basic understanding of the text.