SAMPLES OF STUDENT WORK

65 Habitat destruction is an environmental problem that affects our own generation and will affect future generations if it is not solved. Write one or more paragraphs in which you identify a specific habitat that is being destroyed. Explain how the destruction of this habitat relates to humans and the overall ecosystem. Your answer must include at least:

¥ the name of the habitat and *two* human activities that contribute to the destruction of this habitat [2]

- ¥ one way the destruction of this habitat has affected humans [1]
- ¥ one way the destruction of this habitat has affected other organisms [1]

¥ *two* ways to limit further destruction of this habitat [2]

Score Level 6

The destruction of the rainforest affects our generation because were polluting the air because allof the machines used to cut down the trees, and were also running out of the trees because were not give planting enough after we cut them down. Two human exclusites are that we need paper for school also lumber. And the need for Jobs to cut down the trees It has affected we by air pollution and lack of new trees. It has affected other organisms by taking there homes away from them. Two esays to limit the destruction are to plant more trees then we cut, and find other way's to make poper

Commentary Score Level 6

¥ Names a habitat: the rain forest.

- ¥ Describes 2 human activities that contribute to the destruction of the habitat: polluting the air and cutting down trees. [2]
- ¥ Describes 1 way the destruction of the habitat has affected humans: lack of trees or air pollution. [1]

¥ Describes 1 way the destruction of the habitat has affected other organisms: taking away their homes. [1]

¥ Describes two ways to limit further destruction of the habitat: plant more trees than cut and find other ways to make paper. [2]

Humans have been destroying babetals sive they fare lived. One of it hability that is being destroyed right now is it rain forest. We are cutting down Trees and using it wood for smill things T,6 are not needed to live, We also barn tem That for an area to live, 250 are only hurting ourselves because when we run out of trees to ent there well be to oxygen left for the to breath most of all we are husten other animals they will have no place to live if we keep eating and barrow The porest. There we other ways to baile on , un other than wood, the steel, we would to homes out of steed. build

Commentary Score Level 5

- ¥ Names a habitat: rain forest.
- ¥ Describes 2 human activities that contribute to the destruction of the habitat: cutting trees and burning trees from an area. [2]
- ¥ Describes 1 way the destruction of the habitat has affected humans: less oxygen. [1]
- ¥ Describes 1 way the destruction of the habitat has affected other organisms: other animals have no place to live. [1]
- ¥ Describes 1 way to limit further destruction of the habitat: use something other than wood. [1]

The Rainforests are being destroyed and are also tumans are being att because NO are contributing per. Hymans 40 to CVA orders Jown th ese aiver animals, Humans are ho. destroying Ways , Wo 404 uction of these h, tats otsfing

Commentary Score Level 4

¥ Names a habitat: rain forest.

¥ Describes 1 human activity that contributes to the destruction of the habitat: cutting down the rain forest. [1]

¥ Describes 1 way the destruction of the habitat has affected humans: less oxygen. [1]

¥ Describes 1 way the destruction of the habitat has affected other organisms: cut down niches for animals. [1]

¥ Describes 1 way to limit further destruction of the habitat: protesting. [1]

Habitat destruction is an invironmental problem that affects our own generation and title generations. One specific hasital that is seign destroyed is the Swamplads. Humans have seen Eithing Them in with cement and animal liter A way that humans have Been affected is that me have animal liter A way that humans have Been affected is that me have one more place to eat or Buy things. Other ogran is have lost frey or food in The PRIOT swamps and Humans wed to Build on sold dry land.

Commentary Score Level 3

¥ Names a habitat: swamplands.

¥ Describes 1 human activity that contributes to the destruction of the habitat: filling swamplands with cement. [1]

¥ Describes 1 way the destruction of the habitat has affected humans: providing one more place to eat or buy things. [1]

¥ Describes 1 way the destruction of the habitat has affected other organisms: loss of food source. [1]

Name or describe a technique used in genetic engineering that can be used to alter the genetic makeup of an organism.
Give a specific example of how a product of genetic engineering has been used in the field of health care or agriculture. [2]

Score Level 2

technique used in genetic engineering that can be used to alter the genetic of an organism is artificia ombination. What scientists kup reco are or disease ad to k 2A is of a person a nes wie hy genes. acir c desorders Eeneti avod Drevent 's and heimer Par disease

Commentary Score Level 2

- ¥ Describes a technique used in genetic engineering that can be used to change the genetic makeup of an organism: gene recombination. [1]
- ¥ Gives a specific example of how a product of genetic engineering has been used in the field of health care: gene replacement for disease. [1]

A genetic technique that has been used is splicing. This has been used in the Beild of agriculture in that a Cow was made to have humans breast milk, instead of just cowsmilk

Commentary Score Level 1

¥ Names a technique used in genetic engineering that can be used to change the genetic makeup of an organism: splicing [1] but fails to give an accurate example of how it has been used.

Score Level 1

Gene splicing makes the same seres with rut rossibly a certin disorder which climinates disorders.

Commentary Score Level 1

¥ Names a technique used in genetic engineering that can be used to change the genetic makeup of an organism: gene splicing [1] but fails to give an accurate example of how it has been used.

Biodiversity creates a variety of one species enabling that species have a chance to survive and adapt to changing environment Also if we destroy many kinds of plants, we may lose a cure for a disease

Commentary Score Level 2

¥ States 2 specific reasons why it is important to preserve biodiversity: increasing chances of survival in changing environments [1] and loss of a possible cure for disease [1]

Score Level 1

It is important to preserve biodiversity because if organisms become extinct then the organisms that prey on them will have very little food sources and they could become extinct and it could set off a chain reaction in the food web. Also the more organisms and species there are, the more resources that cycled around.

Commentary Score Level 1

¥ States 1 specific reason why it is important to preserve biodiversity: providing increased stability in ecosystems. [1]

You need to the cycle of animals + organisms some. It you love on organism that will attact the entire circle of life. Animals depend on one another for support + with out that support they will clie.

> Commentary Score Level 0

¥ Neither of the reasons addresses biodiversity.

They are similar because the baby has 23 chromosonces from it's mother but it also has 23 from it's father.

Commentary Score Level 1

¥ Explains why the DNA sequences of a baby are similar to but not identical to the DNA sequences of its mother: gets 23 chromosomes from the mother but also 23 from the father. [1]

Score Level 0 When a baby is born it gets itsown dNa, that may we can tell who it is with DNatests **Commentary**

Score Level 0

¥ Babies do not get their own DNA when they are born.

69 The production of a normal baby involves protecting the developing embryo from harmful environmental factors. Explain *two* ways in which a pregnant woman could avoid exposing the developing embryo to environmental risks. [2]

Score Level 2

One way a pregnent somen cauld avoid exposing the developing embryo to environmental risks is by going to safe places that she knows so the could be a place with no smeking signs so that she can not get Second hand smoke and the backy would not have its lunge cooling before it is born. Another way is not Strinking because it will addect the liver end the bully want be born healthy.

Commentary Score Level 2

¥ Explains 2 ways a pregnant woman can avoid exposing the developing embryo to environmental risks: going to areas where smoking is not allowed [1] and not drinking. [1]

Score Level 2

A mother could cuoid exposing her baby to environmental risks by not being in highly polluted areas, and not going into bars where There is smoke.

Commentary Score Level 2

¥ Explains 2 ways a pregnant woman can avoid exposing the developing embryo to environmental risks: not being in highly polluted areas [1] and not going in areas of secondhand smoke. [1]

Don't drink been, vodka, on whickey:

Commentary Score Level 1

¥ Explains 1 way a pregnant woman can avoid exposing the developing embryo to environmental risks: not drinking alcohol. [1]

Score Level 0

she could st-p working to protection the developing embryo and she could also rest more and to little exercise.

> Commentary Score Level 0

¥ Does not address environmental risks.

71 State one possible negative effect of a warming trend on Earth. Specify how this effect will have a *negative* impact on the living environment. [2]

Score Level 2

The warming of Earth would cause the polor ice caps to relt and the ocean to rise with which would cause the continents to shrink which would make the organisms on the continents fight for land and decrease the population of them.

Commentary Score Level 2

¥ States a possible negative effect of a warming trend on Earth: the oceans rising and the continents shrinking. [1]

¥ Specifies how the oceans rising and continents shrinking will have a negative impact on the living environment: organisms on the continents must fight for land and population size will decrease. [1]

Score Level 1

Those that need a cool environment die out. Plants open their stomates and sweat more so they can't keep homeostasis and die.

Commentary Score Level 1

¥ States a possible negative effect of a warming trend on Earth: those that need a cool environment die out. [1]

72 It has been suggested that the two actions listed below might help reduce the amount of CO_2 in the atmosphere.

- a Increase the number of trees through reforestation.
- b Increase the number of animals through wildlife preservation.

Write one or more paragraphs in which you indicate whether or not a process associated with each action (a and b) would contribute to reducing the CO_2 level of the atmosphere and explain why. [4]

Score Level 4

I believe that if we increase the number of trees through reforestation it would contribute to reaving the CO2 keel of the atomosphere because plants (trees) will take in CO2 and of the ag give off the oxygen that we need to breather and to live. If we increase the numbers of animals though wildlife preservation, I don't think it would contribute much because like humans they breather in oxygen, and breather out CO2. This would cause Mall CO2 to be in the air.

Commentary Score Level 4

¥ Indicates that increasing the number of trees would reduce the CO₂ level because plants take in CO₂ and give off oxygen. [2]

 \ddagger Indicates that increasing the number of animals would cause more CO₂ in the air because animals take in O₂ and give off CO₂. [2]

By increasing the number of trees through reforestation would reduce the amount of (Oa level because trees take in Cos and let out oxygen. By wildlife preservation and increasing the number of animals would not really help (O2 level because the plants would eat all plants leaving less plants to take in EQA,

Commentary Score Level 3

[¥] Indicates that increasing the number of trees would reduce the CO₂ level because trees take in CO₂. [2]

¥ Indicates that increasing the number of animals would not help reduce the CO₂ level. [1]

Score Level 1

Increasing the number of trees through reforestation would contribute by adding more oxygen.

Commentary Score Level 1

¥ Indicates that increasing the number of trees would contribute to reducing the CO₂ level but does not explain why. [1]

I do not think it would reduce it because use as humans can not controls natural gas in the at mosphese

Commentary Score Level 0

[¥] Does not even indicate whether either action would contribute to reducing CO₂ level.

Appendix I

Examination Blueprint

Content	Approximate Weight (%)
Standard 1 (Analysis, Inquiry, and Design)	10—20
Laboratory Checklist (Appendix A)	
Standard 4	
Key Idea 1	13—17
Key Idea 2	9—13
Key Idea 3	8—12
Key Idea 4	6—10
Key Idea 5	13—17
Key Idea 6	10—14
Key Idea 7	11—13

APPENDIX II

Mapping the Sampler to the Core Curriculum

Standards	Test Sampler Draft Question Numbers				
	Part A	Part B	Part C		
Standard 1—Analysis,		42, 43, 44, 45, 56, 57			
Inquiry, and Design					
Key Idea 1	2	42, 43, 44, 45			
Key Idea 2		50, 59			
Key Idea 3	1, 25, 31	36, 49, 53, 55, 60, 61, 62			
(Appendix A)	3, 22, 25, 28, 29, 31	36, 37, 38, 39, 40, 41, 49,			
Laboratory Checklist		51, 52, 53, 54, 55, 58, 61,			
		62			
Standard 4—Science		47, 64			
Key Idea 1	5, 6, 7, 23, 27	46, 47, 56, 57	67		
Key Idea 2	8, 9, 11, 12	66, 68			
Key Idea 3	10, 13, 14, 15, 16, 18, 31	45			
Key Idea 4	9, 10, 17, 19, 20	63	69		
Key Idea 5	4, 5, 7, 21, 22, 23, 24, 25, 26	48, 53, 64 66, 70, 72			
Key Idea 6	27, 28, 29, 30, 33, 35	47, 50, 55, 56, 57	67, 70, 72		
Key Idea 7	25, 32, 34, 35	56, 57	65, 71		

APPENDIX III

Mapping the Core Curriculum to the Sampler

Sampler Oues. No.	Standard	Sampler Ques. No.	Standard
1	St 1 KI 3.5a	37	Laboratory Checklist
2	St 1 KI 1.1a	38	Laboratory Checklist
3	Laboratory Checklist	39	Laboratory Checklist
4	St 4 KI 5.3a	40	Laboratory Checklist
5	St 4 KI 1.2j, 5.3a, 5.3b	41	Laboratory Checklist
6	St 4 KI 1.2g, 1.2h	42	St 1 Intro, KI 1.2a, 1.2b
7	St 4 KI 1.2h, 5.1f	43	St 1 Intro, KI 1.2a, 1.2b
8	St 4 KI 2.1a	44	St 1 Intro, KI 1.2a, 1.2b
9	St 4 KI 2.1d, 4.1b	45	St 1 Intro, KI 1.2a, 1.2b & St 4 KI 3.1d
10	St 4 KI 4.1c, 3.1d	46	St 4 KI 1.2e
11	St 4 KI 2.1f	47	St 4 KI 1.1f, 6 Intro, 6.1f
12	St 4 KI 2.1g, 2.1i	48	St 4 KI 5.1f, 5.1g
13	St 4 KI 3.1b, 3.1d	49	Laboratory Checklist & St 1 KI 3.1a
14	St 4 KI 3.1e	50	St 1 KI 2.3a, 2.3b & St 4 KI 6.1e
15	St 4 KI 3.1g	51	Laboratory Checklist
16	St 4 KI 3 Intro, 3.1f, 3.1g	52	Laboratory Checklist
17	St 4 KI 4.1b	53	Laboratory Checklist & St1 KI 3.1a, & St
18	St 4 KI 3.1c		4 KI 5.1f
19	St 4 KI 4.1c, 4.1d	54	Laboratory Checklist
20	St 4 KI 4.1g	55	Laboratory Checklist & St 1 KI 3.1a &
21	St 4 KI 5.3b		St 4 KI 6.1e
22	Laboratory Checklist & St 4 KI 5.1b	56	St 1 Intro & St 4 KI 1.1f, 6.1g, 7.1c
23	St 4 KI 1.2g, 5.1d	57	St 1 Intro & St 4 KI 1.1f, 6.1g, 7.2b
24	St 4 KI 5.1g	58	Laboratory Checklist
25	Laboratory Checklist & St 1 KI 3.1a	59	St 1 KI 2.3c
	& St 4 KI 5.2j, 7.2c	60	St 1 KI 3.4b, 3.4c, 3.5b
26	St 4 KI 5.2f	61	Laboratory Checklist & St 1 KI 3.4b, 3.4c
27	St 4 KI 1.1f, 6.1d, 6.1f	62	Laboratory Checklist & St 1 KI 3.4b, 3.4c
28	Laboratory Checklist & St 4 KI 6.1a-c	63	St 4 KI 4.1h
29	Laboratory Checklist & St 4 KI 6.1a	64	St 4 Intro, KI 5.3b
30	St 4 KI 6.1b, 6.1d	65	St 4 KI 7 Intro, 7.1c, 7.2b
31	Laboratory Checklist & St 1 KI 3.1a, &	66	St 4 KI 2.2a-e, 5.2j
	St 4 KI 3.1h	67	St 4 KI 6.2a, 6.2b
32	St 4 KI 7.1c, 7.3a	68	St 4 KI 2 Intro, 2.1e
33	St 4 KI 6.3b	69	St 4 Kl 4.1f, 4.1h
34	St 4 KI 7 Intro, 7.1c	70	St 4 KI 5.1b, 6 Intro, 6.1b, 6.1c
35	St 4 KI 6.1g, 7 Intro	71	St 4 Kl 7 Intro., 7.1c
36	Laboratory Checklist & St 1 KI 3.1a	72	St 4 KI 5.1b, 5.1d, 6.1b

Living Environment Regents Examination Test Sampler Draft Fall 2000 Comment Sheet

Please circle "Yes" or "No" and share your comments for each question below.

1.	Content —Are the questions generally appropriate in content? <i>Comments:</i>	YES	NO
2.	Difficulty —Are the questions generally appropriate in difficulty? <i>Comments:</i>	YES	NO
3.	Directions —Are the directions clear and easy for students to follow? <i>Comments:</i>	YES	NO
4.	Scoring Materials —Are the scoring materials for Parts B and C clear and easy for teachers to follow? <i>Comments:</i>	YES	NO
5.	Time —Would most of the students be able to complete this test within the time allotted (3 hours)? <i>Comments:</i>	YES	NO

6. Additional Comments:

Please fax this sheet to (518) 473-0858 or mail it to the New York State Education Department at the above address.