Introduction - Earth Science

The following released test questions are taken from the Earth Science Standards Test. This test is one of the California Standards Tests administered as part of the Standardized Testing and Reporting (STAR) Program under policies set by the State Board of Education.

All questions on the California Standards Tests are evaluated by committees of content experts, including teachers and administrators, to ensure their appropriateness for measuring the California academic content standards in Earth Science. In addition to content, all items are reviewed and approved to ensure their adherence to the principles of fairness and to ensure no bias exists with respect to characteristics such as gender, ethnicity, and language.

This document contains released test questions from the California Standards Test forms in 2003, 2004, 2005, 2006, and 2007. First on the pages that follow are lists of the standards assessed on the Earth Science Test. Next are released test questions. Following the questions is a table that gives the correct answer for each question, the content standard that each question is measuring, and the year each question last appeared on the test. It should be noted that asterisked (*) standards found in the *Science Content Standards for California Public Schools, Kindergarten through Grade 12*, are not assessed on the California Standards Tests in Science and, therefore, are not represented in these released test questions.

The following table lists each reporting cluster, the number of items that appear on the exam, and the number of released test questions that appear in this document. The released test questions for Biology, Chemistry, Earth Science, and Physics are the same test questions found in different combinations on the Integrated Science 1, 2, 3, and 4 tests.

Released Test Questions

REPORTING CLUSTER	NUMBER OF QUESTIONS ON EXAM	NUMBER OF RELEASED TEST QUESTIONS
Investigation and Experimentation (Standards: ESIE1. a-n)	6	6
Astronomy and Cosmology <i>Earth's Place in the Universe</i> (Standards: ES1. a-f, ES2. a-d)	12	16
Solid Earth Dynamic Earth Processes (Standards: ES3. a-e) California Geology (Standards: ES9. a-c)	14	18
The Earth's Energy Energy in the Earth System (Standards: ES4. a-c, ES5. a-e, ES6 Biogeochemical Cycles (Standards: ES7. a-c) Structure and Composition of the Atmosphere (Standards: ES8	,	35
Structure and Composition of the Atmosphere (Standards: ES8 TOTAL	60	55 75
TOTAL	60	75

In selecting test questions for release, three criteria are used: (1) the questions adequately cover a selection of the academic content standards assessed on the Earth Science Test; (2) the questions demonstrate a range of difficulty; and (3) the questions present a variety of ways standards can be assessed. These released test questions do not reflect all of the ways the standards may be assessed. Released test questions will not appear on future tests.

For more information about the California Standards Tests, visit the California Department of Education's Web site at <u>http://www.cde.ca.gov/ta/tg/sr/resources.asp</u>.

THE INVESTIGATION AND EXPERIMENTATION REPORTING CLUSTER

The following 14 California content standards are included in the Investigation and Experimentation reporting cluster and are represented in this booklet by six test questions. These questions represent only some ways in which these standards may be assessed on the California Earth Science Standards Test.

CALIFORNIA CONTENT STANDARDS IN THIS REPORTING CLUSTER

Investigation and Experimentation			
ESIE1.	Scientific progress is made by asking meaningful questions and conducting careful investigations. As a basis for understanding this concept and addressing the content in the other three reporting clusters, students should develop their own questions and perform investigations. Students will:		
ESIE1. a.	Select and use appropriate tools and technology (such as computer-linked probes, spreadsheets, and graphing calculators) to perform tests, collect data, analyze relationships, and display data.		
ESIE1. b.	Identify and communicate sources of unavoidable experimental error.		
ESIE1. c.	Identify possible reasons for inconsistent results, such as sources of error or uncontrolled conditions.		
ESIE1. d.	Formulate explanations by using logic and evidence.		
ESIE1. e.	Solve scientific problems by using quadratic equations and simple trigonometric, exponential, and logarithmic functions.		
ESIE1. f.	Distinguish between hypothesis and theory as scientific terms.		
ESIE1.g.	Recognize the usefulness and limitations of models and theories as scientific representations of reality.		
ESIE1. h.	Read and interpret topographic and geologic maps.		
ESIE1. i.	Analyze the locations, sequences, or time intervals that are characteristic of natural phenomena (e.g., relative ages of rocks, locations of planets over time, and succession of species in an ecosystem).		
ESIE1. j.	Recognize the issues of statistical variability and the need for controlled tests.		
ESIE1. k.	Recognize the cumulative nature of scientific evidence.		
ESIE1. I.	Analyze situations and solve problems that require combining and applying concepts from more than one area of science.		
ESIE1. m.	Investigate a science-based societal issue by researching the literature, analyzing data, and communicating the findings. Examples of issues include irradiation of food, cloning of animals by somatic cell nuclear transfer, choice of energy sources, and land and water use decisions in California.		
ESIE1. n.	Know that when an observation does not agree with an accepted scientific theory, the observation is sometimes mistaken or fraudulent (e.g., the Piltdown Man fossil or unidentified flying objects) and that the theory is sometimes wrong (e.g., the Ptolemaic model of the movement of the Sun, Moon, and planets).		

THE ASTRONOMY AND COSMOLOGY REPORTING CLUSTER

The following 10 California content standards are included in the Astronomy and Cosmology reporting cluster and are represented in this booklet by 16 test questions. These questions represent only some ways in which these standards may be assessed on the California Earth Science Standards Test.

CALIFORNIA CONTENT STANDARDS IN THIS REPORTING CLUSTER

Earth's Place in the Universe			
ES1.	Astronomy and planetary exploration reveal the solar system's structure, scale, and change over time. As a basis for understanding this concept:		
ES1. a.	<i>Students know</i> how the differences and similarities among the sun, the terrestrial planets, and the gas planets may have been established during the formation of the solar system.		
ES1. b.	Students know the evidence from Earth and moon rocks indicates that the solar system was formed from a nebular cloud of dust and gas approximately 4.6 billion years ago.		
ES1. c.	<i>Students know</i> the evidence from geological studies of Earth and other planets suggests that the early Earth was very different from Earth today.		
ES1. d.	Students know the evidence indicating that the planets are much closer to Earth than the stars are.		
ES1. e.	Students know the Sun is a typical star and is powered by nuclear reactions, primarily the fusion of hydrogen to form helium.		
ES1. f.	Students know the evidence for the dramatic effects that asteroid impacts have had in shaping the surface of planets and their moons and in mass extinctions of life on Earth.		
ES2.	Earth-based and space-based astronomy reveal the structure, scale, and changes in stars, galaxies, and the universe over time. As a basis for understanding this concept:		
ES2. a.	<i>Students know</i> the solar system is located in an outer edge of the disc-shaped Milky Way galaxy, which spans 100,000 light years.		
ES2. b.	Students know galaxies are made of billions of stars and comprise most of the visible mass of the universe.		
ES2. c.	Students know the evidence indicating that all elements with an atomic number greater than that of lithium have been formed by nuclear fusion in stars.		
ES2. d.	Students know that stars differ in their life cycles and that visual, radio, and X-ray telescopes may be used to collect data that reveal those differences.		

THE SOLID EARTH REPORTING CLUSTER

The following eight California content standards are included in the Solid Earth reporting cluster and are represented in this booklet by 18 test questions. These questions represent only some ways in which these standards may be assessed on the California Earth Science Standards Test.

CALIFORNIA CONTENT STANDARDS IN THIS REPORTING CLUSTER

Dynamic E	arth Processes			
ES3.	Plate tectonics operating over geologic time has changed the patterns of land, and mountains on Earth's surface. As the basis for understanding this concept			
ES3. a.	<i>Students know</i> features of the ocean floor (magnetic patterns, age, and sea-floor topography) provide evidence of plate tectonics.			
ES3. b.	<i>Students know</i> the principal structures that form at the three different kinds of plate boundaries.			
ES3. c.	Students know how to explain the properties of rocks based on the physical and chemical conditions in which they formed, including plate tectonic processes.			
ES3. d.	Students know why and how earthquakes occur and the scales used to measure their intensity and magnitude.			
ES3. e.	Students know there are two kinds of volcanoes: one kind with violent eruptions producing steep slopes and the other kind with voluminous lava flows producing gentle slopes.			
California	Geology			
ES9.	The geology of California underlies the state's wealth of natural resources as well as its natural hazards. As a basis for understanding this concept:			
ES9. a.	<i>Students know</i> the resources of major economic importance in California and their relation to California's geology.			
ES9. b.	<i>Students know</i> the principal natural hazards in different California regions and the geologic basis of those hazards.			
ES9. c.	<i>Students know</i> the importance of water to society, the origins of California's fresh water, and the relationship between supply and need.			

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THE EARTH'S ENERGY REPORTING CLUSTER

The following 17 California content standards are included in The Earth's Energy reporting cluster and are represented in this booklet by 35 test questions. These questions represent only some ways in which these standards may be assessed on the California Earth Science Standards Test.

CALIFORNIA CONTENT STANDARDS IN THIS REPORTING CLUSTER

Energy in the Earth System				
ES4.	. Energy enters the Earth system primarily as solar radiation and eventually escapes as heat. As a basis for understanding this concept:			
ES4. a.	Students know the relative amount of incoming solar energy compared with Earth's internal energy and the energy used by society.			
ES4. b.	<i>Students know</i> the fate of incoming solar radiation in terms of reflection, absorption, and photosynthesis.			
ES4. c.	Students know the different atmospheric gases that absorb the Earth's thermal radiation and the mechanism and significance of the greenhouse effect.			
ES5.	Heating of Earth's surface and atmosphere by the sun drives convection within the atmosphere and oceans, producing winds and ocean currents. As a basis for understanding this concept:			
ES5. a.	Students know how differential heating of Earth results in circulation patterns in the atmosphere and oceans that globally distribute the heat.			
ES5. b.	Students know the relationship between the rotation of Earth and the circular motions of ocean currents and air in pressure centers.			
ES5. c.	Students know the origin and effects of temperature inversions.			
ES5. d.	Students know properties of ocean water, such as temperature and salinity, can be use to explain the layered structure of the oceans, the generation of horizontal and vertical ocean currents, and the geographic distribution of marine organisms.			
ES5. e.	Students know rain forests and deserts on Earth are distributed in bands at specific latitudes.			
ES6.	Climate is the long-term average of a region's weather and depends on many factors. As a basis for understanding this concept:			
ES6. a.	Students know weather (in the short run) and climate (in the long run) involve the transfer of energy into and out of the atmosphere.			
ES6. b.	Students know the effects on climate of latitude, elevation, topography, and proximity to large bodies of water and cold or warm ocean currents.			
ES6. c.	Students know how Earth's climate has changed over time, corresponding to changes in Earth's geography, atmospheric composition, and other factors, such as solar radiation and plate movement.			

Biogeochemical Cycles			
ES7.	Each element on Earth moves among reservoirs, which exist in the solid earth, in oceans, in the atmosphere, and within and among organisms as part of biogeochemical cycles. As a basis for understanding this concept:		
ES7. a.	Students know the carbon cycle of photosynthesis and respiration and the nitrogen cycle.		
ES7. b.	Students know the global carbon cycle: the different physical and chemical forms of carbon in the atmosphere, oceans, biomass, fossil fuels, and the movement of carbon among these reservoirs.		
ES7. c.	Students know the movement of matter among reservoirs is driven by Earth's internal and external sources of energy.		
Structure	and Composition of the Atmosphere		
••••••	and composition of the Atmosphere		
ES8.	Life has changed Earth's atmosphere, and changes in the atmosphere affect conditions for life. As a basis for understanding this concept:		
	Life has changed Earth's atmosphere, and changes in the atmosphere affect		
ES8.	Life has changed Earth's atmosphere, and changes in the atmosphere affect conditions for life. As a basis for understanding this concept:		

1

2

Released Test Questions

- A teacher demonstrated the possible effects of acid rain by placing several types of rocks in separate beakers containing a vinegar solution with a pH of 3. As time passed, some of the solutions retained a pH of 3 while other solutions gradually reached a pH of 7. Which of the following *best* explains this variation of pH in this demonstration?
- A All solutions eventually reach a pH of 7, so the experiment is not complete.
- **B** Vinegar is an organic compound that reacts unpredictably with inorganic rocks.
- **C** The rocks have varying chemical composition, so some but not all of them react with acid.
- **D** The students should have measured the pH immediately after mixing since acid rain reacts quickly in nature.

CSY10614

A day on Saturn takes about 10 Earth hours. Which fact would *best* explain this short day?

- A Saturn is less dense than Earth.
- **B** Saturn is much farther from the Sun than Earth.
- **C** Saturn rotates more rapidly than Earth.
- **D** Saturn's orbit has greater eccentricity than Earth's.

CSS00098



Contour Interval - 5 meters

The highest elevation on this topographic map can be no more than about

- A 25 meters.
- **B** 34 meters.
- C 45 meters.
- **D** 49 meters.

CSS00090

4 In an area where a river has cut deep into Earth, there are several layers of very different rock exposed. The oldest rock layer is *most* likely to be the layer that is

- **A** below the other layers.
- **B** the thickest layer.
- **C** the most rich in fossils.
- **D** igneous intrusive rock.

CSS00004

Earth Science



Released Test Questions

- **10** It has been determined that the oldest rocks retrieved from the Moon by Apollo astronauts were formed 4.44 billion years ago, while the oldest rocks found on Earth are less than 4 billion years old. This difference is *most* likely because
 - A Earth formed well after the Moon was formed.
 - **B** Earth cooled more slowly than the Moon.
 - **C** Earth's oldest rocks have been recycled by plate tectonics and erosion.
 - **D** Earth and the Moon were both captured by the Sun's gravity at different times.

11 Before humans visited the Moon and brought back lunar rocks, the age of the Moon was unknown. Radioisotope dating of these rocks showed that the age of the oldest lunar rock was closest to

- A 186,000 years.
- **B** 6.5 million years.
- C 4.4 billion years.
- **D** 15 billion years.

CSY20357

CSY10110

12 Which of the following is the best evidence that Earth's continents were once in vastly different positions than they are today?

- A Penguins are found only in the Southern Hemisphere.
- **B** Fossils of tropical plants are found in Antarctica.
- C Volcanoes encircle the Pacific Ocean.
- **D** Major rivers form deltas from continental erosion.

CSS00182

- **13** Early telescopes showed stars as only points of light, while the planets appeared to be much larger, providing evidence that stars must
 - A be more plentiful in our solar system than planets.
 - **B** travel in elliptical orbits like planets.
 - **C** be much farther from Earth than planets.
 - **D** reflect much more light than planets.

CSS00171

- 14 Although many ancient civilizations designated certain patterns of stars as constellations, they never included planets in their constellations. What feature of planets, as opposed to stars, explains this?
 - A They look bigger than stars.
 - **B** They are more difficult to see than stars.
 - **C** There are not enough of them to form a constellation.
 - **D** They do not maintain fixed positions relative to other planets or stars.

CSY10253

15 What is the source of energy for the Sun?

- A hydrogen fusion
- **B** internal combustion
- C nuclear fission of metals
- **D** burning of solar gases

CSS00166

Fusion is a form of nuclear reaction resulting in an enormous release of heat energy. The fusion of hydrogen to helium is a reaction that commonly occurs in

- A the Sun and other typical stars.
- **B** the ionosphere and thermosphere.
- C Earth's outer core of molten iron.
- **D** a comet's tail of ionized gases.

CSY10050

16

Earth Science



- 11 -

Released Test Questions



D chemical reactivity.

CSS00128

Which of the following is *most* likely to produce a fragmental sedimentary rock? A magma fractured on the ocean floor B calcite crystallized from seawater C gravel deposited in a silt bed D limestone dissolved in cave formation Earthquake vibrations are detected, measured, and recorded by instruments called

- A sonargraphs.
- **B** seismographs.
- C Richter scales.
- **D** magnetometers.

CSS00243



At which location would earthquakes be *least* likely to occur?

- **A** 1
- **B** 2
- **C** 3
- **D** 4

CSS00143

- 12 -

Earth Science



– 13 –

42

Earth Science

- **40** Water is important to many different types of industry. Which industry's water requirement is the greatest burden on California's fresh water supply?
 - A aerospace
 - **B** manufacturing
 - **C** tourism
 - D agriculture

CSY10539

41 Only about 50% of the solar energy directed toward Earth penetrates directly to the surface. What happens to the rest of the radiation?

- A It is absorbed or reflected by the atmosphere.
- **B** It loses energy traveling through space.
- **C** It is reflected off the Moon and back into space.
- **D** It loses energy overcoming the Sun's gravity.

CSY10139



Geothermal energy, a possible energy resource, is based on which phenomenon?

- A There are concentrations of heat in some places of Earth's crust.
- **B** Earth's internal energy heats its surface more than the Sun does.
- C Heat energy from the Sun penetrates deep into Earth.
- **D** Human activity is the largest source of heat energy on Earth.

CSY10328

43 The Moon is very hot on the side facing the Sun and very cold on the dark side. This extreme temperature difference is primarily due to the Moon's

- A mineral composition.
- **B** thin atmosphere.
- C reflective rocks.
- **D** lack of volcanic activity.

CSS00150

- 14 -

Earth Science

44 Venus is warmed by solar radiation, but its thick cloud cover increases the temperature because the clouds

- A prevent the escape of heat into space.
- **B** convert solar radiation into heat.
- C absorb short light wavelengths, leaving heat.
- **D** produce heat as they are pushed by strong winds.

CSS00104

45

Which of these could increase average global temperatures?

- A increased use of fossil fuels
- **B** increased ocean algal blooms
- C decreased carbon dioxide emissions
- **D** increased numbers of animal species

CSS00252

46 The clouds that surround Venus are so thick that the planet actually absorbs less sunlight than the Earth. Nevertheless, Venus has a surface temperature of more than 400 °C. Which of these *best* explains this high surface temperature?

- A The bright surfaces of the clouds reflect sunlight back on the planet.
- **B** The strong winds in the atmosphere produce friction.
- **C** The thick clouds in the atmosphere prevent heat from escaping.
- **D** The sulfuric acid in the clouds releases heat energy.

CSS00165

47 More solar energy reaches the equatorial regions than the polar regions because the equatorial regions

- A are covered by a greater area of land.
- **B** have more vegetation to absorb sunlight.
- **C** have days with more hours of light.
- **D** receive sun rays closest to vertical.

CSS00160

- 15 -

Released Test Questions

CSY20113



Which diagram *best* models the movement of coastal air during the afternoon?



49 What is the driving force for surface ocean currents?

- A density layering
- **B** global winds
- C the Coriolis effect
- **D** salt concentration

50



What causes the wind deflection from the north and south poles?

- A the rotation of Earth on its axis
- **B** the oblate shape of Earth
- **C** the tilt of Earth's axis relative to its orbital plane
- **D** the difference in total land mass of the two hemispheres

CSS00145

— 16 —

Earth Science

CSY20019

51 Air moving from the poles toward the equator turns west. The primary cause of this global deflection is

- A the shape and size of land masses.
- **B** larger cities surrounded by farmlands.
- C changes in the magnetic field.
- **D** the rotation of the planet.

CSS00198

52 When a layer of cool air at the surface of Earth is found under a layer of warmer air above it, the result is known as

- A the Coriolis effect.
- **B** the greenhouse effect.
- **C** a temperature inversion.
- **D** an upwelling.

CSY10148

53 Temperature inversions can occur when

- A hot air rises during the night and sinks during the day.
- **B** air is heated directly by solar radiation.
- C cool air becomes trapped below warm air.
- **D** places are warmer in winter than summer.

CSS00169

54

Ocean surface currents are created by

- A differences in water temperature.
- **B** differences in water density.
- **C** friction with winds.
- **D** salinity variations.

CSS00291

- **55** Sailing from the Atlantic Ocean into the Mediterranean Sea is difficult because the sea flows into the ocean instead of the ocean flowing into the sea. This phenomenon occurs because the Mediterranean Sea has a higher density due to a
 - A higher salinity.
 - **B** lower volume.
 - **C** lower air pressure.
 - **D** higher oxygen content.

56



At which location on the map would a rain forest *most* likely be found?

- **A** 1
- **B** 2
- **C** 3
- **D** 4

Released Test Questions

57

Wind Patterns of Planet X

Δ

Where would deserts *most* likely be found on Planet X?

EQUATOR

- A A
- **B** B
- C C
- D D

Which of these effects generally occurs as the result of a warm air mass and a cooler air mass converging at Earth's surface?

- A The sky becomes clear.
- **B** Winds die down.
- C Cloud formation decreases.
- **D** Stormy weather patterns develop.

59

58

Snow on the ground prevents polar climates from gaining heat by what mechanism?

- A heating by greenhouse gases
- **B** heat spread from the equator
- C reflection of solar radiation
- **D** release of heat from Earth's core

CSY10384

CSS00109

CSS00180

60 Shifts in Earth's continents *most* likely caused a change in Earth's

- A climatic regions.
- **B** mass.
- C orbital velocity.
- **D** atmospheric temperature.

CSS00149

61 The Gulf Stream in the Northern Hemisphere and the Brazilian Current in the Southern Hemisphere move poleward. Compared to inland areas at the same latitude, the coastal areas bordering these currents will

A be warmer.

62

- **B** be more arid.
- **C** have more advection fogs.
- **D** have shorter growing seasons.

CSS00186

Scientists have found fossils of tropical plants in Antarctica. How could tropical plants have grown in Antarctica?

- A At one time, Earth's entire surface was a tropical rain forest.
- **B** At one time, Antarctica was located closer to the equator.
- **C** The rotation of Earth has increased, causing cooling of the atmosphere.
- **D** Catastrophic volcanic eruptions melted the ice and exposed the soil to sunlight.

Earth Science

63 Which of the following was made possible by the presence of photosynthetic bacteria on Earth?

A a water cycle

- **B** an oxygen cycle
- C carbon fixation
- **D** anaerobic respiration

CSY10028



Which of these statements is *best* illustrated by this diagram?

- A Animals under water eat plants.
- **B** Land animals exhale oxygen into water.
- C Water-dwelling animals breathe carbon dioxide.
- **D** Plants can take in carbon dioxide from air or water.

CSS00146

65 From Earth's atmosphere, carbon dioxide is used by plants, algae, and cyanobacteria during the process of

- A photosynthesis.
- **B** respiration.
- C decomposition.
- **D** nitrogen fixation.

CSY10172

66

Analysis of Gases From a Hawaiian Volcano

Gas	Amount
H ₂ O (steam)	79%
CO2	12%
SO ₂	6.5%
N ₂	1.5%
$H_{2}^{}$, CO, CI $_{2}^{}$, and Ar	trace

The table above lists the gases coming from a modern Hawaiian volcano. If ancient volcanoes gave off the same gases, which gas would have been *most* helpful in the development of early life-forms that could carry out photosynthesis?

- A N₂
- **B** SO_2
- $C CO_2$
- **D** Cl_2

CSS00163

67 Carbon in the atmosphere is *most* often found as which of the following compounds?

- A stratospheric ozone
- **B** fossil fuel
- C carbon monoxide
- **D** carbon dioxide

71

Earth Science

69

Released Test Questions

68 The release of carbon from limestone reservoirs into the atmosphere is *most* often accomplished by the

- A abrasion of the limestone by wind-blown sands.
- **B** destruction of limestone by lichens.
- **C** formation of stalagmites and stalactites in limestone caves.
- **D** chemical reaction between limestone and rainwater.

CSS00152

During periods of increased global temperatures, which of the following is *most* likely to occur?

- A a decrease in atmospheric CO_2
- **B** an increase in atmospheric CO_2
- **C** a decrease in earthquakes
- **D** an increase in earthquakes

CSY10533

70 Earth's atmosphere is divided into layers that are based upon their

- A water content.
- **B** relative humidity.
- C gas content.
- **D** temperature gradient.

CSS00265



The diagram above shows four layers of Earth's atmosphere. Which of the following correctly labels the layers represented by A, B, C, and D (from Earth moving upward) in the correct sequence?

- A troposphere, stratosphere, mesosphere, thermosphere
- **B** thermosphere, mesosphere, stratosphere, troposphere
- C troposphere, mesosphere, thermosphere, stratosphere
- **D** mesosphere, troposphere, thermosphere, stratosphere

72 The primitive atmosphere of Earth was deficient in free oxygen. What process was primarily responsible for the development of the present percentage of free oxygen in the Earth's atmosphere?

- A outgassing
- **B** photosynthesis
- C volcanic eruptions
- **D** oxidation of iron-based minerals
- 73

Most of the molecular oxygen in the early atmosphere of Earth resulted from

- A photosynthesis in primitive plants.
- **B** decaying primitive plants and animals.
- **C** volcanic eruptions.
- **D** lightning striking Earth.

CSY10213

CSS00164

74 The first atmosphere that formed above Earth was *most* likely due to what process?A eruption of volcanoes

- **B** movement of water
- **C** development of land plants
- **D** occurrence of violent storms

75

Which of the following human activities reduces the level of ozone in the atmosphere?

- A using artificial lighting in scientific polar stations
- **B** using large banks of solar cells for energy production
- C releasing chlorofluorocarbons from aerosol cans
- **D** destroying large areas of the equatorial rain forests

CSS00148

CSY20135

Earth Science

Released Test Questions

Question Number	Correct Answer	Standard	Year of Release
1	С	ESIE1.C	2006
2	С	ESIE1.D	2004
3	В	ESIE1.H	2003
4	Α	ESIE1.I	2004
5	Α	ESIE1.J	2006
6	D	ESIE1.K	2005
7	D	ES1.A	2005
8	D	ES1.A	2006
9	В	ES1.B	2004
10	С	ES1.B	2007
11	С	ES1.B	2007
12	В	ES1.C	2003
13	С	ES1.D	2004
14	D	ES1.D	2006
15	A	ES1.E	2003
16	A	ES1.E	2006
17	В	ES1.F	2004
18	В	ES2.A	2003
19	Α	ES2.C	2005
20	С	ES2.D	2004
21	В	ES2.D	2005
22	В	ES2.D	2007
23	Α	ES3.A	2003
24	В	ES3.B	2004
25	С	ES3.B	2004
26	В	ES3.B	2007
27	D	ES3.C	2005
28	Α	ES3.C	2006
29	С	ES3.C	2007
30	В	ES3.D	2003
31	Α	ES3.D	2004
32	В	ES3.D	2006
33	С	ES3.E	2005
34	D	ES9.A	2003
35	С	ES9.A	2005

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Earth Science

Question Number	Correct Answer	Standard	Year of Release
36	D	ES9.A	2006
37	В	ES9.B	2004
38	D	ES9.B	2005
39	В	ES9.C	2004
40	D	ES9.C	2007
41	Α	ES4.A	2005
42	Α	ES4.A	2006
43	В	ES4.B	2003
44	Α	ES4.B	2006
45	Α	ES4.C	2004
46	С	ES4.C	2005
47	D	ES5.A	2003
48	D	ES5.A	2004
49	В	ES5.A	2007
50	A	ES5.B	2003
51	D	ES5.B	2006
52	С	ES5.C	2006
53	С	ES5.C	2007
54	С	ES5.D	2007
55	A	ES5.D	2007
56	С	ES5.E	2005
57	С	ES5.E	2007
58	D	ES6.A	2004
59	С	ES6.A	2006
60	A	ES6.B	2003
61	Α	ES6.B	2003
62	В	ES6.C	2005
63	В	ES6.C	2007
64	D	ES7.A	2004
65	Α	ES7.A	2005
66	С	ES7.B	2003
67	D	ES7.B	2006
68	D	ES7.C	2007
69	В	ES7.C	2007
70	D	ES8.A	2003

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Question Number	Correct Answer	Standard	Year of Release
71	Α	ES8.A	2005
72	В	ES8.B	2005
73	Α	ES8.B	2006
74	Α	ES8.B	2007
75	С	ES8.C	2003

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