Print your name and the name of your school on the lines above.

The questions on this test measure your knowledge and understanding of science. The test has two parts. Both parts are contained in this test booklet.

**Part I** consists of 45 multiple-choice questions. Record your answers to these questions on the separate answer sheet. Use only a No. 2 pencil on your answer sheet.

**Part II** consists of 38 open-ended questions. Write your answers to these questions in the spaces provided in this test booklet.

You may use a calculator to answer the questions on the test if needed.

You will have two hours to answer the questions on this test.

**DO NOT TURN THIS PAGE UNTIL YOU ARE TOLD TO DO SO.**
Part I

DIRECTIONS

There are 45 questions on Part I of the test. Each question is followed by three or four choices, numbered 1 through 4. Read each question carefully. Decide which choice is the best answer. On the separate answer sheet, mark your answer in the row of circles for each question by filling in the circle that has the same number as the answer you have chosen.

Read the sample question below.

Sample Question

Earth gets most of its light from

(1) the stars
(2) the Sun
(3) the Moon
(4) other planets

The correct answer is the Sun, which is choice number 2. On your answer sheet, look at the box showing the row of answer circles for the sample question. Since choice number 2 is the correct answer for the sample question, the circle with the number 2 has been filled in.

Answer all of the questions in Part I in the same way. Mark only one answer for each question. If you want to change an answer, be sure to erase your first mark completely. Then mark the answer you want.

You will not need scrap paper. You may use the pages of this test booklet to work out your answers to the questions.

You may use a calculator if needed.

When you are told to start working, turn the page and begin with question 1. Work carefully and answer all of the questions in Part I.

When you have finished Part I, go right on to Part II. Answer all of the questions in Part II.
1. The diagram below shows water in a graduated cylinder.

A student states that the graduated cylinder contains 150 mL of water. This statement is
(1) a prediction (3) a theory
(2) an observation (4) a hypothesis

2. The average daily air temperature at a certain location increases when there is a seasonal increase in the number of daylight hours. Which graph best shows this change?

3. The data table below shows that as the pressure of a gas sample was changed, the volume of the gas changed. The pressure was measured in atmospheres (atm) and the volume was measured in milliliters (mL).

<table>
<thead>
<tr>
<th>Pressure (atm)</th>
<th>Volume (mL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>120.0</td>
</tr>
<tr>
<td>2.0</td>
<td>60.0</td>
</tr>
<tr>
<td>4.0</td>
<td>30.0</td>
</tr>
<tr>
<td>8.0</td>
<td>15.0</td>
</tr>
</tbody>
</table>

According to the data table, as the pressure of the gas increases, the volume of the gas
(1) decreases
(2) increases
(3) remains the same

4. Which type of energy in gasoline is transformed into mechanical energy in a motorcycle engine?
(1) chemical (3) magnetic
(2) nuclear (4) electrical

5. A Punnett square is shown below. The dominant trait is represented by \( R \). The recessive trait is represented by \( r \).

What percentage of the offspring will most likely show the dominant trait?
(1) 25% (3) 75%
(2) 50% (4) 100%
Base your answers to questions 6 and 7 on the graph below and on your knowledge of science. The graph shows the average monthly air temperatures for three different locations, A, B, and C.

**Average Monthly Air Temperature**

<table>
<thead>
<tr>
<th>Month</th>
<th>January</th>
<th>March</th>
<th>May</th>
<th>July</th>
<th>September</th>
<th>November</th>
<th>January</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Temperature (°F)</td>
<td>90</td>
<td>80</td>
<td>70</td>
<td>60</td>
<td>50</td>
<td>40</td>
<td>30</td>
</tr>
</tbody>
</table>

**Note that question 6 has only three choices.**

6 Which location experiences the least change in average monthly air temperature between its warmest and coldest months?

(1) A  
(2) B  
(3) C  

7 Where is location C most likely located?

(1) Southern Hemisphere  
(2) New York State  
(3) equator  
(4) North Pole  

8 Which term identifies a single unit of hereditary information?

(1) egg cell  
(2) sperm cell  
(3) nucleus  
(4) gene  

9 The sum of all chemical reactions in the human body is known as

(1) feedback  
(2) metabolism  
(3) dynamic equilibrium  
(4) biological adaptation  

10 The main function of hormones in the human body is to

(1) identify and destroy microbes  
(2) regulate body functions  
(3) transport blood to cells  
(4) store energy  

11 Which human organ system produces sperm or egg cells?

(1) digestive system  
(2) nervous system  
(3) respiratory system  
(4) reproductive system  

12 Naturally occurring variations within a species are mainly the result of mutations and

(1) sexual reproduction  
(2) dynamic equilibrium  
(3) metabolism  
(4) camouflage  

13 Animals may fight, make threatening sounds, and act aggressively toward members of the same species. These behaviors usually occur as the result of

(1) competition  
(2) conservation  
(3) decomposition  
(4) pollution  

14 During which process does a caterpillar become a butterfly?

(1) fertilization  
(2) metamorphosis  
(3) asexual reproduction  
(4) biological adaptation
15 The diagram below shows views of the same onion cells observed by a student under a compound light microscope before and after a laboratory procedure.

What did the student most likely do to cause the difference between the two views?  
(1) increased the magnification  (2) decreased the magnification  
(3) added stain to the cells  (4) added water to the cells

16 The hydra shown below is reproducing asexually.

What percentage of the offspring’s genetic information is the same as the genetic information of the parent?  
(1) 25%  (2) 50%  
(3) 75%  (4) 100%

17 The diagram below shows a food chain.

What do the arrows in the diagram represent?  
(1) flow of energy  (3) one community replacing another  
(2) life cycle stages  (4) renewable resource depletion
Base your answers to questions 18 and 19 on the diagram below and on your knowledge of science. The diagram shows how modern types of flowers developed from early types of flowers over the last 75 million years.

18 What is the most likely reason why these early flowers gradually changed to many different types of flowers over time?

(1) The flowers’ traits were genetically engineered.
(2) The environments of the flowers stayed the same.
(3) The genetic material of the flowers stayed the same.
(4) The flowers adapted to environmental conditions.

19 Which process is represented in this diagram?

(1) evolution  (3) selective breeding
(2) photosynthesis  (4) ecological succession

20 Which sequence represents the order of development for many plants?

(1) seed develops inside fruit → seed is dispersed → seed germinates → plant grows
(2) seed is dispersed → seed develops inside fruit → seed germinates → plant grows
(3) seed germinates → plant grows → seed is dispersed → seed develops inside fruit
(4) seed is dispersed → plant grows → seed germinates → seed develops inside fruit
21 Cancer is best described as
(1) a type of genetic engineering
(2) the merging of sex cells
(3) abnormal cell division
(4) tissue that stops growing

22 A cat jumps when startled by a loud noise. This is an example of an organism
(1) sensing and responding to its external environment
(2) sensing and responding to its internal environment
(3) changing and controlling its external environment
(4) changing and controlling its internal environment

23 The diagram below shows a life process taking place within a cell.

Which life process is shown?
(1) reproduction
(2) digestion
(3) respiration
(4) locomotion

24 Which outcome is most likely if a person consumes more Calories than needed for daily activities?
(1) weight loss
(2) weight gain
(3) deficiency disease
(4) infectious disease

25 Organisms that consume wastes to obtain the nutrients they need to survive are classified as
(1) decomposers
(2) herbivores
(3) predators
(4) producers

26 Which term identifies a group of cells that work together to perform a similar function?
(1) molecule
(2) organ
(3) organism
(4) tissue

27 Pesticides and fertilizers can help farmers to produce more crops. However, overuse of these chemicals can result in
(1) ecological succession
(2) material recycling
(3) environmental pollution
(4) selective breeding

28 Which force keeps the planets in their orbits around the Sun?
(1) gravity
(2) magnetism
(3) electricity
(4) friction

29 Which material is primarily a mixture of weathered rock and organic matter?
(1) minerals
(2) soil
(3) ocean water
(4) seashells

30 Most of Earth’s major earthquakes are caused by
(1) seasonal heating and cooling of Earth’s surface
(2) weathering of rock at Earth’s surface
(3) Earth’s gravitational attraction to the Moon
(4) faulting of rock in Earth’s crust
Base your answers to questions 31 and 32 on the diagram below and on your knowledge of science. The diagram represents the motion of the Moon around Earth as seen from above the North Pole. One position of the Moon in its orbit is shown.

31 Which Moon phase will usually be seen from Earth when the Moon is in this position?

(1)  (2)  (3)  (4)

32 The time it takes the Moon to revolve once around Earth is approximately one

(1) day  (2) week  (3) month  (4) year
33 The diagram below shows two locations where fossils of *Mesosaurus* have been found. *Mesosaurus* was a freshwater reptile that existed on Earth about 250 million years ago.

![Diagram of Mesosaurus and South America and Africa](image)

(Not drawn to scale)

Which statement best explains why these freshwater *Mesosaurus* fossils are found today in some rock layers in both South America and Africa?

1. *Mesosaurus* swam across the ocean between the continents.
2. The continents were once connected as a single landmass.
3. Global warming has been raising the sea level in the Atlantic Ocean.
4. The remains of *Mesosaurus* were carried across the ocean by predators.

34 A person uses a bow to shoot an arrow at a target. In which diagram does the bow and arrow have the greatest amount of potential energy?
35 The diagram below shows 20 grams of two different materials, A and B, on a laboratory balance.

Compared to material A, material B has a different
(1) density  (3) phase
(2) mass  (4) shape

36 Which activity is an example of a chemical change?
(1) dissolving table salt in water  (3) melting gold to make jewelry
(2) hammering aluminum into thin sheets  (4) burning wood to produce ashes

37 Which process is represented by B?
(1) condensing  (3) freezing
(2) evaporating  (4) melting

38 Which two processes increase the motion of the molecules?
(1) A and B  (3) C and D
(2) B and C  (4) D and A

39 Which resource is considered nonrenewable?
(1) wind power  (3) moving water
(2) solar energy  (4) fossil fuels

40 The arrows in the diagram below show the circulation of air on a sunny day.

The air circulation shown is caused by
(1) both hot air and cool air sinking  (3) hot air sinking and cool air rising
(2) both hot air and cool air rising  (4) hot air rising and cool air sinking

41 Which form of energy are x rays and ultraviolet light?
(1) nuclear  (3) electromagnetic
(2) heat  (4) chemical

42 Sound will not travel in a
(1) solid  (3) gas
(2) liquid  (4) vacuum

43 A student pushes against a tree with a force of 10 newtons (N). The tree does not move. What is the amount of force exerted by the tree on the student?
(1) 0 N  (3) 10 N
(2) 5 N  (4) 20 N
44 The picture below shows a bird landing at a bird feeder outside a window.

![Bird at feeder](image)

The image of this bird in the window is the result of light being

(1) absorbed  (3) transmitted
(2) reflected  (4) refracted

45 The diagram below shows a game where players try to move a metal needle through three metal paper clips without letting the needle touch the clips. A bulb lights when the needle touches a paper clip, signaling that the player has lost.

![Game diagram](image)

Why does the bulb light when the needle touches a paper clip?

(1) Convection cells are produced.  (2) Vibrations set up wavelike disturbances.
(3) A circuit is completed.  (4) A phase change occurs.
Part II

Directions (46–83): Record your answers in the space provided below each question.

Base your answers to questions 46 and 47 on the information below and on your knowledge of science.

Solutions of acids and solutions of bases have different properties. Indicators are chemicals that change color when a solution becomes more acidic or more basic. Some indicators and their colors are shown in the table below.

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Color in Acidic Solution</th>
<th>Color in Neutral Solution</th>
<th>Color in Basic Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>bromthymol blue</td>
<td>yellow</td>
<td>green</td>
<td>blue</td>
</tr>
<tr>
<td>litmus</td>
<td>red</td>
<td>purple</td>
<td>blue</td>
</tr>
<tr>
<td>phenolphthalein</td>
<td>colorless</td>
<td>colorless</td>
<td>pink</td>
</tr>
</tbody>
</table>

46 Explain why testing a solution with only phenolphthalein would *not* show whether the solution is acidic or neutral. [1]

______________________________________________________________________________________
______________________________________________________________________________________
______________________________________________________________________________________

47 Scientists used these three indicators to test a sample of lake water. The results were:

bromthymol blue test — yellow
litmus test — red
phenolphthalein test — colorless

The best conditions for a certain fish species occur when the lake water is neutral, not acidic or basic. Do the test results show that the lake water is a good environment for this species of fish?

Circle one:        Yes        No

Explain your answer. [1]

______________________________________________________________________________________
______________________________________________________________________________________
______________________________________________________________________________________


Base your answers to questions 48 and 49 on the graph below and on your knowledge of science. The graph shows the concentration of carbon dioxide in parts per million (ppm) in the atmosphere over several years.

48 Based on the graph, predict the month in 2007 when the concentration of atmospheric carbon dioxide would have been highest. [1]

____________________________________________________________________________________

49 The general trend in the graph shows an increase in atmospheric carbon dioxide levels from 2002 to 2006. Describe one human activity that may have produced this increase. [1]

____________________________________________________________________________________

____________________________________________________________________________________

http://serc.carleton.edu/introgeo/interactive/examples/co2.html
Base your answers to questions 50 through 52 on the graph below and on your knowledge of science. The graph shows the solubility curves for a solid solute and a gaseous solute.

50 How many grams of the solid solute will dissolve in 100 grams of water at 25°C?  

__________ g

51 Describe the relationship between water temperature and the solubility of the gaseous solute from 0°C to 15°C.  

____________________________________________________________________________________
____________________________________________________________________________________

52 State one way to increase the rate at which a solid solute dissolves in 100 grams of water.  

____________________________________________________________________________________
____________________________________________________________________________________
Base your answers to questions 53 through 55 on the table of mineral properties below and on your knowledge of science.

<table>
<thead>
<tr>
<th>Mineral</th>
<th>Properties</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Hardness</td>
</tr>
<tr>
<td>calcite</td>
<td>soft</td>
</tr>
<tr>
<td>chalcopyrite</td>
<td>hard</td>
</tr>
<tr>
<td>feldspar</td>
<td>hard</td>
</tr>
<tr>
<td>galena</td>
<td>soft</td>
</tr>
<tr>
<td>graphite</td>
<td>soft</td>
</tr>
<tr>
<td>gypsum</td>
<td>soft</td>
</tr>
<tr>
<td>hornblende</td>
<td>hard</td>
</tr>
</tbody>
</table>

53 Identify the mineral in the table that is hard, has a black streak, and has no reaction with acid. [1]

__________________________________________

54 Compared to the chalcopyrite, which property of galena is different? [1]

__________________________________________

55 Describe the test for determining the streak of most minerals. [1]

____________________________________________________________________________________

____________________________________________________________________________________

____________________________________________________________________________________

____________________________________________________________________________________
A group of students placed the same species of a water plant in five identical test tubes. The test tubes were filled with water and placed at different distances from a light source. After a few minutes, bubbles began to appear in the test tubes, indicating that photosynthesis was occurring. The students counted and recorded the number of bubbles per minute that appeared in each of the test tubes. The results are shown in the data table below.

**Photosynthesis in a Species of Water Plant**

<table>
<thead>
<tr>
<th>Distance from Light Source (cm)</th>
<th>Number of Bubbles per Minute</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>45</td>
</tr>
<tr>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>50</td>
<td>19</td>
</tr>
<tr>
<td>70</td>
<td>6</td>
</tr>
<tr>
<td>100</td>
<td>1</td>
</tr>
</tbody>
</table>

Predict the number of bubbles per minute that would appear if a test tube were placed 80 cm from the light source. [1]

___________ bubbles per minute
57 Identify two consumers in this food web that eat producers. [1]

______________________________________________________________________________________
______________________________________________________________________________________

58 Explain why the foxes shown in this food web are categorized as carnivores. [1]

______________________________________________________________________________________
______________________________________________________________________________________

59 Both owls and hawks eat mice. Explain why the removal of mice from this food web would likely affect owls more than hawks. [1]

______________________________________________________________________________________
______________________________________________________________________________________

Grade 8 Science — June '11

[18]
The diagram below shows cells from two different organisms. Several major cell structures are labeled.

State two reasons why cell B is classified as a plant cell. [2]

1. ____________________________________________________________________________________

2. ____________________________________________________________________________________

The table below lists two structures in the human digestive system and two functions of each. Complete the table by circling the type of digestion represented by each function described. [2]

<table>
<thead>
<tr>
<th>Structure</th>
<th>Function</th>
<th>Type of Digestion</th>
</tr>
</thead>
<tbody>
<tr>
<td>mouth</td>
<td>teeth grind food</td>
<td>mechanical digestion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>chemical digestion</td>
</tr>
<tr>
<td></td>
<td>saliva changes starch to sugar</td>
<td>mechanical digestion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>chemical digestion</td>
</tr>
<tr>
<td>stomach</td>
<td>acids allow enzymes to break</td>
<td>mechanical digestion</td>
</tr>
<tr>
<td></td>
<td>down food</td>
<td>chemical digestion</td>
</tr>
<tr>
<td></td>
<td>food mixed and squeezed</td>
<td>mechanical digestion</td>
</tr>
<tr>
<td></td>
<td></td>
<td>chemical digestion</td>
</tr>
</tbody>
</table>
62 Identify the human organ system responsible for the movement of blood shown in the diagram. [1]

___________________________ system

63 State one reason why blood at location B contains more oxygen than blood at location A. [1]

_____________________________________________________________________________________

_____________________________________________________________________________________

64 Scientists infer that a giant asteroid crashed into Earth approximately 65 million years ago, contributing to the extinction of dinosaurs and many other life-forms. Identify one form of evidence scientists have found that implies dinosaurs existed in the past. [1]

_____________________________________________________________________________________
Base your answers to questions 65 and 66 on the diagram below and on your knowledge of science. The diagram shows a process that occurs in a male organism. Four stages in the process are labeled A, B, C, and D.

65 What type of cell is formed in this male organism at stage D? [1]

__________________________________________

66 How does the number of chromosomes in the cell at A typically compare to the number of chromosomes in one of the cells at D? [1]

______________________________________________________________________________________

67 The diagram below shows the major types of ecological communities (biomes) found at different latitudes.

<table>
<thead>
<tr>
<th>Types of Ecological Communities</th>
<th>Found at Different Latitudes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tropical rain forest</td>
<td>Temperate forest</td>
</tr>
<tr>
<td>Equator 0°</td>
<td>Increasing latitude</td>
</tr>
<tr>
<td>Snow and ice</td>
<td>North Pole 90° N</td>
</tr>
</tbody>
</table>

Explain why tropical rain forests are found near Earth’s equator but not near the North Pole. [1]

______________________________________________________________________________________
68 Sunlight is absorbed by the leaves. What two substances are also taken in by the plant for photosynthesis to occur? [1]

_________________________________________ and _________________________________________

69 Identify one product, other than sugar, that results from the process of photosynthesis. [1]

_________________________________________
Base your answers to questions 70 and 71 on the diagram below and on your knowledge of science. The diagram shows one type of power facility that provides electricity for use in houses.

70 What phase change occurs in the boiler? [1]

______________________________ phase to _________________________________ phase

71 Identify one fossil fuel that may be burned in the furnace shown. [1]

________________________________________________________________________

________________________________________________________________________
72 The contour map below shows a hill. Two elevations are labeled. Place an X on the map where an elevation of 430 feet could be located. [1]

Base your answers to questions 73 and 74 on the map below and on your knowledge of science. The map shows a region of Earth containing volcanoes and tectonic plate boundaries.

73 What do the arrows on the map represent? [1]

______________________________________________________________________________________

74 Identify one harmful environmental change that occurs when a volcano erupts. [1]

______________________________________________________________________________________

Grade 8 Science — June '11
Base your answers to questions 75 and 76 on the map below and on your knowledge of science. Points A and B are locations on the map.

75 On the map above, place an X at 40° N 20° W. [1]

76 Explain why location B will experience sunrise before location A. [1]
Base your answers to questions 77 and 78 on the map below and on your knowledge of science. The map shows a low-pressure system (L) over New York State in July.

77 Describe one weather condition that was most likely produced along the fronts as this low-pressure system moved across New York State in July. [1]

______________________________________________________________________________________

78 Explain why this low-pressure system causes the temperature to be warmer in Syracuse than in Rochester. [1]

______________________________________________________________________________________

______________________________________________________________________________________

______________________________________________________________________________________
79 The chemical symbols of four different elements are listed below.

Cd       Cu       Br       P

Write the symbol of these four elements in the appropriate box in the chart below to indicate whether the element is a metal or a nonmetal. [1]

<table>
<thead>
<tr>
<th>Element Classification</th>
<th>Element Symbol</th>
</tr>
</thead>
<tbody>
<tr>
<td>metals</td>
<td></td>
</tr>
<tr>
<td>nonmetals</td>
<td></td>
</tr>
</tbody>
</table>

80 In which group of the Periodic Table of the Elements are the noble gases located? [1]

Group __________________________
Base your answers to questions 81 and 82 on the diagram below and on your knowledge of science. The diagram shows an overhead view of two trains, A and B, traveling beside each other in the direction shown by the arrow.

81 When a passenger in train A looks at a passenger directly across in train B, it appears that train B is not moving, even though both trains are moving. How does the speed of train A compare to the speed of train B?  [1]

____________________________________________________________________________________
____________________________________________________________________________________

82 What visual evidence observed by the passengers in either train lets them know that their train is moving in the direction indicated by the arrow?  [1]

____________________________________________________________________________________
____________________________________________________________________________________
The diagram below shows a lever that can be used to lift a person. The fulcrum is the point on which the lever pivots.

Describe one change that could be made to the lever to decrease the input force needed to lift the person. [1]

______________________________________________________________________________________

______________________________________________________________________________________

______________________________________________________________________________________
<table>
<thead>
<tr>
<th>Question</th>
<th>Maximum Credit</th>
<th>Credit Allowed</th>
</tr>
</thead>
<tbody>
<tr>
<td>46</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>47</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>48</td>
<td>1</td>
<td></td>
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<tr>
<td>49</td>
<td>1</td>
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<td>50</td>
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<td>68</td>
<td>1</td>
<td></td>
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<tr>
<td>69</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>70</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>71</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>72</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>73</td>
<td>1</td>
<td></td>
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