

Functional Independence

Fall 2012



Science

Item Descriptors

Grade 8

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DIRECTIONS: Read each question. Choose the **BEST** answer for each question.

- 1 P.ME.FI.EB.IV.1.m.1a:**
Describe and compare objects in terms of weight and width

Based on the illustrations, identify the pair of plants having equal amounts of a physical characteristic

- A** selects a pair with unequal amounts of the characteristic
- B** selects a pair with unequal amounts of the characteristic
- C** selects the pair having equal amounts of the characteristic

- 2 R.RO.FI.EB.II.1.e.3ADDm:**
Identify and/or describe ways in which technology is used in everyday life

Recognize which of 3 listed electronic devices enables a person to accomplish a specified task

- A** selects a device that could provide access to the necessary technology but does not enable task completion
- B** selects the device that enables a person to complete the specified task
- C** selects a device that does not enable a person to complete the specified task

- 3 C.CN.FI.EB.I.1.m.3a:** Identify and/or use tools and equipment appropriate to scientific investigations

Recognize the appropriate tool to use to accomplish a specified task

- A** selects a tool that would not enable a person to complete the specified task
- B** selects a tool that is appropriate for use to complete the specified task
- C** selects a tool that would not enable a person to complete the specified task

- 4 L.CE.FI.EB.III.1.m.1a:**
Recognize that all living things are made of cells

Distinguish plant cells from other types of cells

- A** selects cells that are not plant cells
- B** selects the drawing that represents plant cells
- C** selects cells that are not plant cells

- 5 L.OR.FI.EB.III.2.m.1a:**
Compare and/or classify organisms in major groups based on their structure
- Given 3 drawings of different organisms, recognize which organism is a specified type
- A** selects an organism that is not an example of the specified type
 - B** selects the drawing that is an example of the specified type of organism
 - C** selects an organism that is not an example of the specified type
- 6 L.OR.FI.EB.III.2.m.1a:**
Compare and/or classify organisms in major groups based on their structure
- Recognize which animal is an example of a specified animal classification
- A** selects an animal not included within the specified classification
 - B** selects an animal not included within the specified classification
 - C** selects the animal that is a member of the specified animal classification

- 7 L.OR.FI.EB.III.2.m.2a:**
Identify stages of the life cycle of flowering plants
- Based on a procedure list, recognize the step in the procedure that follows the step illustrated by the drawing
- A** selects a step that precedes the step illustrated by the drawing
 - B** selects a step that is beyond the step that follows the step illustrated by the drawing
 - C** selects the step in the procedure that immediately follows the step illustrated by the drawing

- 8 L.OR.FI.EB.III.2.m.2a:**
Identify stages of the life cycle of flowering plants

Identify the process a flowering plant, in a specified life-cycle stage, follows to proceed with its development

- A** does not correctly identify the process the plant, in its specified life-cycle stage, follows
- B** recognizes the process that the plant, in this stage of its life-cycle, follows to proceed with its development
- C** does not correctly identify the process the plant, in its specified life-cycle stage, follows

- 9 L.OR.FI.EB.III.2.m.4a:**
Identify how selected systems and processes work together in animals

Recognize which body system primarily carries out the specified purpose

- A** selects a body system that is not primary for the specified purpose
- B** selects a body system that is not primary for the specified purpose
- C** selects the body system that primarily carries out the specified purpose

- 10 L.OR.FI.EB.III.2.m.3a:**
Explain where plants make and store food

Recognize which part of a specified plant is used to store its food

- A** selects a plant part that does not primarily store food
- B** selects the plant part where food is primarily stored
- C** selects a plant part that does not primarily store food

- 11 L.OR.FI.EB.III.2.m.3a:**
Explain where plants make and store food

Recognize which part of a specified plant is used to store its food

- A** selects a plant part that does not primarily store food
- B** selects a plant part that does not primarily store food
- C** selects the plant part where food is primarily stored

12 R.RO.FI.EB.II.1.m.2a:

Recognize limitations in personal knowledge

Classify the type of scientific information provided by a given statement

- A** selects the correct type of scientific information provided by the statement
- B** selects a type of scientific information not provided by the statement
- C** selects a type of scientific information not provided by the statement

14 L.EV.FI.EB.III.4.m.1a:

Explain how fossils provide evidence about the nature of ancient life

Recognize the best reason to explain how dinosaurs became extinct

- A** selects a statement not supported by evidence
- B** selects a reason that would not lead to extinction of all dinosaurs
- C** selects the most tenable statement for dinosaur extinction

13 L.EV.FI.EB.III.4.m.1a:

Explain how fossils provide evidence about the nature of ancient life

Recognize scientific facts that are based on fossil evidence

- A** selects a past process for which fossils do not provide evidence
- B** selects a past process for which fossils do not provide evidence
- C** selects the scientific facts that can be derived from fossils

15 L.EC.FI.EB.III.5.m.5a:

Identify how humans use and benefit from plant and animal materials

Given 3 drawings of different products, recognize the product that is made from two types of organisms

- A** selects the product that can be made from both types of organisms
- B** selects the product made from just 1 type of organism
- C** selects the product made from just 1 type of organism

16 L.EC.FI.EB.III.5.m.2a:
Identify and/or describe that organisms acquire energy directly or indirectly from sunlight

Distinguish a producer organism among consumer organisms

- A** selects the organism that is a producer
- B** selects an organism that is a consumer
- C** selects an organism that is a consumer

17 L.EC.FI.EB.III.5.m.1a:
Describe common patterns of relationships among populations

Recognize a relationship between organisms in a food chain under a specified condition

- A** selects a condition not likely to occur based on the specified condition
- B** selects the condition likely to occur for the predator population
- C** selects a condition not likely to occur based on the specified condition

18 L.EC.FI.EB.III.5.m.5a:
Identify how humans use and benefit from plant and animal materials

Recognize type of Earth resource used by human beings to produce the listed products

- A** selects a resource that does not provide material to make the products
- B** selects the resource that provides the raw material used to make the products
- C** selects a resource that does not provide material to make the products

19 P.ME.FI.EB.IV.1.m.1a:
Describe and compare objects in terms of weight and width

Based on the illustration, determine if 1 object weighs more than another object

- A** selects an incorrect conclusion about the weight of the 2 objects
- B** selects an incorrect conclusion about the weight of the 2 objects
- C** selects the correct conclusion about the weight of the 2 objects

24 P.ME.FI.EB.IV.1.m.5a:

Construct simple circuits and/or identify how they work in terms of the flow of current

Recognize examples of complete and incomplete circuits

- A** selects an incorrect example of a complete circuit
- B** selects the correct example of a complete circuit
- C** selects an incorrect example of a complete circuit

25 P.ME.FI.EB.IV.1.m.6a:

Investigate electrical devices, using instructions and appropriate safety precautions

Identify the appropriate behavior for using a specified type of electrical equipment

- A** selects an inappropriate behavior for safety using the specified equipment
- B** selects appropriate behavior for safety using the specified equipment
- C** selects an inappropriate behavior for safety using the specified equipment

26 P.CM.FI.EB.IV.2.m.1a:

Describe common physical changes in matter

Recognize the physical change that occurs in a specified substance as temperature changes

- A** selects the change that does occur in the substance as temperature changes
- B** selects a change that involves such a minute amount of matter as to not be perceptible
- C** selects a change that is the opposite of what will occur as temperature changes

31 P.MO.FI.EB.IV.3.m.5a:
Identify which simple machine is best used in a given situation

Recognize the type of simple machine used and described in the drawing provided

- A** selects a simple machine that is not described or used in the drawing
- B** selects the simple machine used as displayed and described in the drawing
- C** selects a simple machine that is not described or used in the drawing

32 P.WV.FI.EB.IV.4.m.1a:
Recognize how sounds travel through different media

Recognize the difference in sound intensity among different sound sources

- A** selects a sound not having the greatest intensity at its source
- B** selects a sound not having the greatest intensity at its source
- C** selects the sound that has the greatest intensity at its source

33 E.GE.FI.EB.V.1.m.1a: Identify and/or describe major features of the earth's surface using maps

Based on a map, recognize the Earth-surface feature that is at most of Michigan's borders

- A** selects the Earth surface feature that borders most of Michigan
- B** selects an Earth surface feature that does not border Michigan
- C** selects an Earth surface feature that does not border Michigan

34 E.GE.FI.EB.V.1.m.2a: Identify and/or describe major events in the rock cycle

Recognize the process that produces the specified Earth surface change

- A** selects the process that produces the specified Earth surface change
- B** selects a process that does not produce the specified Earth surface change
- C** selects a process that does not produce the specified Earth surface change

39 E.AW.FI.EB.V.3.m.1a:
Interpret temperature,
precipitation, and cloud cover
information

Recognize the purpose of a
specified weather measurement
tool

- A** selects information
not provided by the
measurement tool
- B** identifies the information
about a weather condition
that the measurement tool
provides
- C** selects information
not provided by the
measurement tool

40 E.AW.FI.EB.V.3.e.2ADDm:
Identify and/or describe
seasonal changes in Michigan’s
weather

Identify the season of the
year most associated with
occurrence of the specified
weather condition

- A** selects the season during
which the specified
weather condition is most
likely to occur
- B** selects a season during
which the specified
weather condition is less
frequent
- C** selects a season during
which the specified
weather condition is less
frequent



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