MICHIGAN STATE BOARD OF EDUCATION

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**DIRECTIONS:** Read each question. Choose the **BEST** answer for each question.
NOTE: For each item listed throughout this booklet, the first statement is a summary of the Michigan Extended Benchmark (EB) and the second statement or problem is the descriptor for the item’s stem or question.

1. **L.OR.FI.EB.III.2.e.2a**: Identify observable physical characteristics that distinguish plants from animals

   Recognize which 1 of 3 listed organism types has a specified physical feature

   A. selects an organism that does not have the specified physical feature
   
   B. selects an organism that does not have the specified physical feature
   
   C. selects the type of organism that has the specified physical feature

2. **L.OR.FI.EB.III.2.e.4a**: Identify the basic life requirements of plants and animals

   Recognize which 1 of 3 listed substances a specified organism needs to survive

   A. selects a substance that does not contribute to an organism's survival
   
   B. selects an essential substance needed by the organism to survive
   
   C. selects a substance that does not contribute to an organism's survival

3. **L.OR.FI.EB.III.2.e.4a**: Identify the basic life requirements of plants and animals

   Recognize that plants display directed growth to obtain essential life requirements

   A. selects a resource toward which a plant does not show directed growth to obtain
   
   B. selects the basic life requirement for which a plant shows directed growth to obtain
   
   C. selects a basic life requirement for which a plant does not show directed growth to obtain
4 **L.OR.FI.EB.III.2.e.5a:** Identify functions of selected seed plant parts

Using drawings of progressive growth stages for a specified organism, identify the feature of the organism from which the organism began to grow

A selects a feature of the organism that is not the origin of the organism’s growth

B selects a feature of the organism that is not the origin of the organism’s growth

C selects the correct feature of the specified organism from which the organism began to grow

5 **L.OR.FI.EB.III.2.e.1a:** Identify characteristics of observable body parts in a variety of animals

Recognize which type of organism has a specified body feature

A selects an organism that does not have the specified body feature

B selects the organism that has the specified body feature

C selects an organism that does not have the specified body feature

6 **L.OR.FI.EB.III.2.e.3a:** Identify life cycles of familiar organisms

Recognize a specified stage of growth in an organism’s life cycle

A selects the correct illustration for the specified stage of growth

B selects an illustration of a growth stage that was not specified

C selects an illustration of a growth stage that was not specified

7 **L.OR.FI.EB.III.2.e.4a:** Identify the basic life requirements of plants and animals

Recognize the type(s) of organism(s) that have a specified life function

A selects an incomplete set of organisms which have the specified life function

B selects an incomplete set of organisms which have the specified life function

C selects all organisms that have the specified life function
8 **E.GE.FI.EB.V.1.e.5a:** Identify uses of materials taken from the Earth

Recognize which activity uses an Earth material for production

A selects an activity that does not use an Earth material

B selects the activity that uses an Earth material for production

C selects an activity that does not use an Earth material

9 **R.RO.FI.EB.II.1.e.3a:** Identify ways in which technology is used in everyday life

Recognize which of 3 electronic-technology objects is used for a specified function

A selects the object used for the specified function

B selects an object that does not support the specified function

C selects an object that does not support the specified function

10 **L.HE.FI.EB.III.3.e.1a:** Identify how parents and their young look alike

Recognize which 1 of 3 observable traits is biologically passed from parent to offspring

A selects an observable trait which is not passed biologically from parent to offspring

B selects the observable trait that is biologically passed from parent to offspring

C selects an observable trait that is not passed biologically from parent to offspring

11 **L.HE.FI.EB.III.3.e.1a:** Identify how parents and their young look alike

Using a listing of the physical features of a parent organism, recognize which feature will most likely occur among the offspring

A selects a feature description not likely to be observed among the offspring

B selects a feature description not likely to be observed among the offspring

C selects the feature description most likely to occur
12  **L.EV.FI.EB.III.4.e.2a:** Identify how an animal may adapt to its environment

Recognize how specific types of animals adapt to their specified environmental conditions

A selects a general statement which does not indicate adaptation to the specified environmental conditions

B correctly selects a behavior by the animals which is adaptive to the specified environmental conditions

C selects an animal feature that has no bearing on adaptation to the specified environmental conditions

13  **L.EC.FI.EB.III.5.e.2a:** Identify the basic requirements for all living things to maintain their existence

Recognize which human activity would temporarily benefit a specified organism's survival

A selects a human activity that does not benefit the specified organism's survival

B selects the human activity that provides some support for the specified organism's survival

C selects a human activity that does not benefit the specified organism's survival

14  **L.EC.FI.EB.III.5.e.4a:** Identify positive and negative effects of humans on the environment

Recognize which event is the most likely cause of the specified environmental incident

A selects the event that most likely caused the specified environmental incident

B selects an event that most likely would not cause the specified environmental incident

C selects an event that most likely would not cause the specified environmental incident

15  **L.EC.FI.EB.III.5.e.4a:** Identify positive and negative effects of humans on the environment

Recognize the environmental benefit from a specified technological change

A selects the environmental issue that benefits from the technological change

B selects an environmental issue that does not directly benefit from the technological change

C selects an environmental issue which would have some benefit, however not the most benefit, from the technological change
16 P.ME.FI.EB.IV.1.e.5a: Identify possible electrical hazards to be avoided at home and at school

Recognize the safest action to remove power from a specified device after the device becomes disabled

A selects an action to remove power that is not safe

B selects the safest action to remove power from the specified device

C selects an action to remove power that is not safe

17 P.ME.FI.EB.IV.1.m.3ADDe: Identify mixtures or components of mixtures

Recognize the state of matter of a substance after combining 2 other substances each having a different state of matter

A selects an incorrect state of matter for the final substance after combination

B selects an incorrect state of matter for the final substance after combination

C selects the correct state of matter of the 2 substances after these substances are combined

18 C.CN.FI.EB.I.1.e.5a: Identify and/or use various scientific sources of information

Recognize the resource which enables access to a specified source of information

A correctly selects the resource through which access to the information occurs

B selects a resource that does not provide access to the specified information

C selects a resource that does not provide access to the specified information

19 P.ME.FI.EB.IV.1.e.2a: Identify properties of materials that make them useful

Recognize which material is best for a specified use

A selects the best material for the specified use

B selects a material that is very inefficient and unstable for the specified use

C selects a material that is very inefficient and unstable for the specified use
20  C.CN.FI.EB.I.1.e.1a: Identify and/or generate questions about the world based on observation

Recognize the question that applies to the specified research topic

A  selects an off topic question

B  selects the question that directly relates to the purpose for the investigation

C  selects an off topic question

21  P.CM.FI.EB.IV.2.e.1a: Identify common physical changes in matter

Recognize the action that will cause a specified physical change in state of a specified material

A  selects an action that will not bring about the specified change in state

B  selects the action that will produce the specified change in state for the specified material

C  selects an action that will not bring about the specified change in state

22  P.CM.FI.EB.IV.2.e.2a: Prepare mixtures and separate them into their component parts

Recognize the lab technique that will accomplish a specified task

A  selects a lab action that does not address the specified task

B  selects a lab action that does not address the specified task

C  selects the lab technique that will accomplish the specified task

23  P.CM.FI.EB.IV.2.e.2a: Prepare mixtures and separate them into their component parts

Recognize the scientific term that best classifies a specified food arrangement

A  selects a scientific classification that does not describe the specified food arrangement

B  selects the scientific term that appropriately describes the food arrangement

C  selects a scientific classification that does not describe the specified food arrangement
24 P.MO.FI.EB.IV.3.e.1a: Describe motions of common objects in terms of speed and direction

Recognize the change in speed of an object as it moves in a specified situation

A incorrectly selects the object's change in speed

B correctly selects the object's change in speed as it moves in the specified situation

C incorrectly selects the object's change in speed

25 P.CM.FI.EB.IV.2.e.2a: Prepare mixtures and separate them into their component parts

Recognize the lab equipment needed to accomplish a specified task

A selects lab equipment that does not accomplish the specified task

B selects lab equipment that does not accomplish the specified task

C selects the specific lab tool that is necessary to accomplish the specified task

26 P.MO.FI.EB.IV.3.e.4a: Identify and/or use simple machines to change effort

Given 3 types of tools, recognize which tool represents a specified simple machine

A selects a tool that is not an example of the specified simple machine

B selects the tool that is an application of the specified simple machine

C selects a tool that is not an example of the specified simple machine

27 P.WV.FI.EB.IV.4.e.1a: Describe sounds in terms of their properties

Recognize how a specified action affects the property of the sound from a specified object

A selects a change in sound property that does not occur from action on the source of the sound

B selects the correct change in sound property by the action taken on the source of the sound

C selects a change in sound property that does not occur from action on the source of the sound
28 P.WV.FI.EB.IV.4.e.2a: Identify and/or recognize how sounds are made

Recognize essential requirements for sound production

A selects an event that does not necessarily produce sound

B selects an event that does not necessarily produce sound

C selects the situation that lists essential requirements for sound production

29 E.GE.FI.EB.V.1.e.3a: Identify and/or describe changes in the Earth’s surface

Recognize an event that leads to a specified change in Earth’s surface

A selects the geophysical event that leads to the change

B selects a weather event that has no relation to the specified change

C selects a weather event that has no relation to the specified change

30 P.WV.FI.EB.IV.4.e.3a: Identify and/or use prisms and filters with light sources to produce various colors

Recognize the atmospheric component through which light must pass to produce a natural phenomenon

A selects an atmospheric component light does not pass through

B selects the correct atmospheric component which light passes through in order to produce the phenomenon

C selects an atmospheric component that is not involved with the phenomenon

31 E.GE.FI.EB.V.1.e.1a: Identify major features of the Earth’s surface

Given three different drawings of water on Earth’s surface, recognize the drawing that corresponds to the text-specified Earth surface water feature

A selects a surface water drawing that does not match the specified feature

B selects a surface water drawing that does not match the specified feature

C selects the surface water drawing that does match the specified feature
32 E.HY.FI.EB.V.2.e.1a: Identify the three states of water on Earth

Given three different drawings of specific features found either on Earth's surface or Earth's atmosphere, recognize the drawing that represents a common Earth resource

A selects the drawing that represents the common Earth resource

B selects a drawing that does not represent the common Earth resource

C selects a drawing that does not represent the common Earth resource

33 E.AW.FI.EB.V.3.e.3a: Identify and explain appropriate safety precautions during severe weather

Recognize the safest action for shelter and protection from a specified storm

A selects the safest action to take during the specified storm

B selects an action that does not provide safety from the specified storm

C selects an action that does not provide safety from the specified storm

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

Recognize the difference in expected weather conditions between 2 specified seasons

A selects weather condition differences that are not expected between the 2 specified seasons

B selects weather condition differences that are not expected between the 2 specified seasons

C selects the weather condition differences that are expected to occur between the 2 specified seasons

35 E.HY.FI.EB.V.2.e.1a: Identify the three states of water on Earth

Recognize the change in states of matter sequence as illustrated

A selects a change in state sequence that does not correspond to the sequence in the drawing

B selects a change in state sequence that does not correspond to the sequence in the drawing

C selects the change in states of matter sequence that corresponds to the drawing