

## APPENDIX A Sample Functional Independence Items

### Fall 2007 and Spring 2008 Functional Independence Science Official Released Items

The following items were released to the public following the fall 2007 and spring 2008 administrations of the Functional Independence assessments. Released item booklets containing these items can be found on the MI-Access Web page at [www.mi.gov/mi-access](http://www.mi.gov/mi-access).

#### Released Items Grade 5

**R1** What completes the life cycle of an insect?

**Egg → Larva → Pupa → ?**

- A** Child
- B** Teen
- C** Adult

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**R2** The average American produces four pounds of trash a day.

What can Americans do to make less trash each day?

- A** build more landfills for trash
- B** dump trash in oceans
- C** recycle the trash

## Sample Functional Independence Items

**R3** Which is an inclined plane?

- A** ramp
  - B** can opener
  - C** gear
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**R4** Jacob beats on a drum.

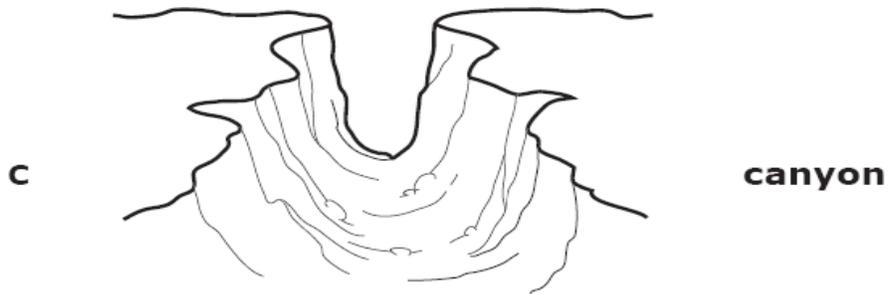
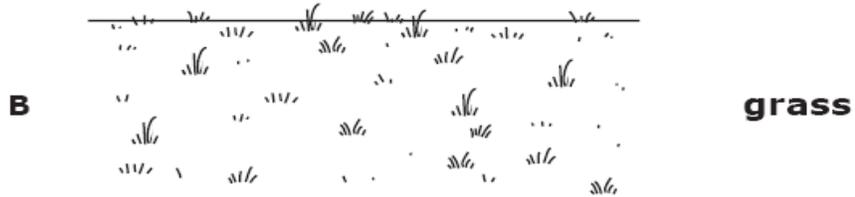
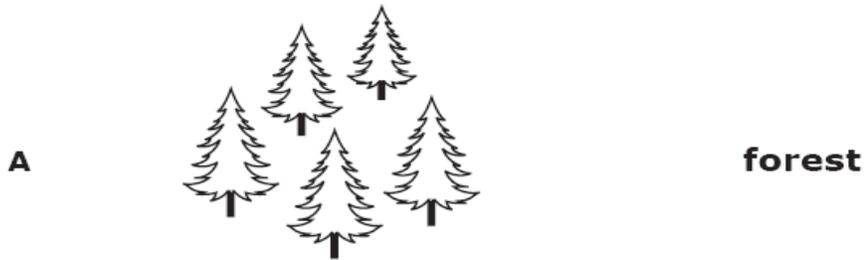
He beats the drum with more force.

What happens to the sound?

- A** The sound becomes softer.
- B** The sound becomes louder.
- C** The sound has a higher pitch.

### Sample Functional Independence Items

**R5** Which was caused by erosion?



**Sample Functional Independence Items**

Use the chart below to answer question **R6**.

**Three-Day Forecast**

Day	Weather
Monday	 Sunny
Tuesday	 Rainy
Wednesday	 Cloudy

**R6** On which day should you wear boots?

- A** Monday
- B** Tuesday
- C** Wednesday

**Sample Functional Independence Items**

**Released Items Grade 8**

Use the picture below to answer question **R1**.



**carrot**

**R1** What part of this plant is **usually** eaten?

- A** leaves
- B** stems
- C** root

## Sample Functional Independence Items

**R2** What is the relationship of a bird to a worm?

- A** The bird is the predator of the worm.
  - B** The bird is the prey of the worm.
  - C** The bird and the worm help each other.
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**R3** Stan replaced the batteries in a radio.

The radio still does not work.

What information should Stan look at **next**?

- A** the picture of how to place the batteries
- B** the brand of the appliance
- C** the brand of the batteries

## Sample Functional Independence Items

**R4** What is an example of a chemical change?

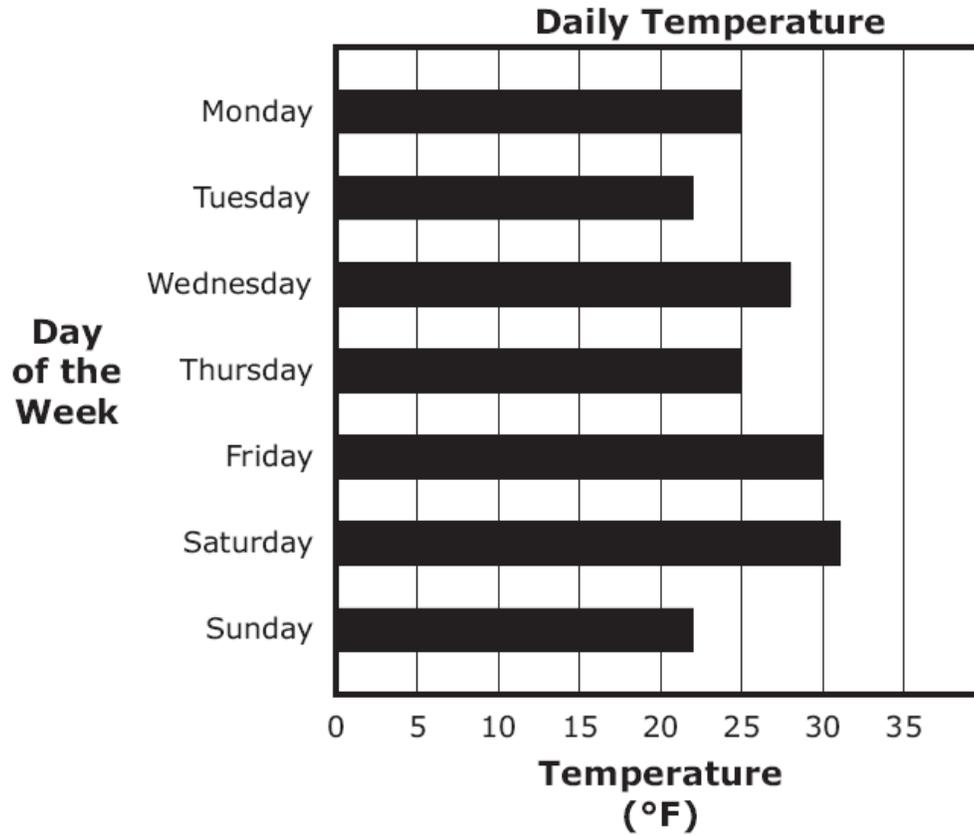
**A** a nail being hammered

**B** a nail rusting

**C** a nail being cut in half

## Sample Functional Independence Items

Use the bar graph below to answer question **R5**.



**R5** What type of clothing should be worn during the week shown in the graph?

- A** shorts and T-shirt
- B** gloves and winter coat
- C** spring coat and pants

## Sample Functional Independence Items

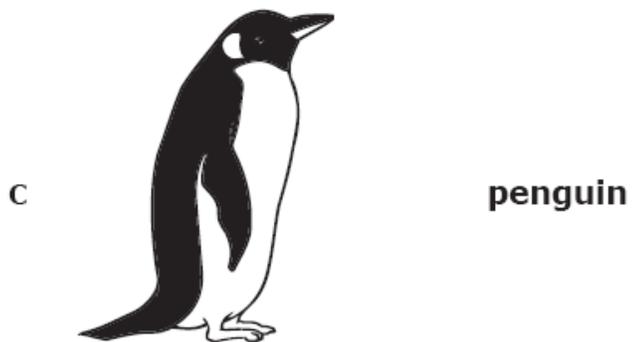
**R6** What is the effect of Earth spinning on its axis?

- A** sun and moon
- B** night and day
- C** summer and winter

**Sample Functional Independence Items**

**Spring 2008 Released Items Grade 11**

**R1** Which organism is a mammal?



## Sample Functional Independence Items

**R2** Jeffery has a bacterial infection.

Which statement **best** describes the treatment for the infection?

- A** Antibiotics will kill the bacteria.
  - B** Water will slow the bacteria.
  - C** Jeffery must stay in bed.
- 

**R3** The wolf population in a habitat increased.

What is the **best** explanation for why the local moose population decreased?

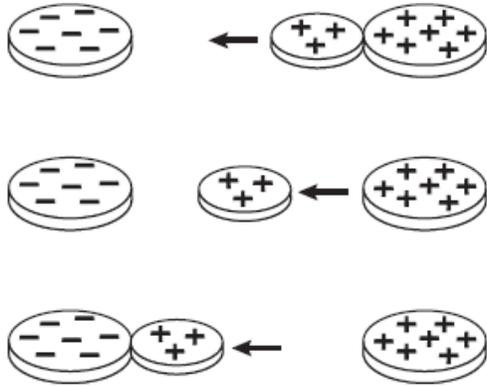
- A** The wolves ate the moose.
- B** The wolves' howling scared away the moose.
- C** The wolves chased the moose away.

## Sample Functional Independence Items

- R4** What happens to the boiling point of the mixture when salt is added to water?
- A** decreases
  - B** increases
  - C** stays the same
-

### Sample Functional Independence Items

**R5** The picture below shows charged particles.

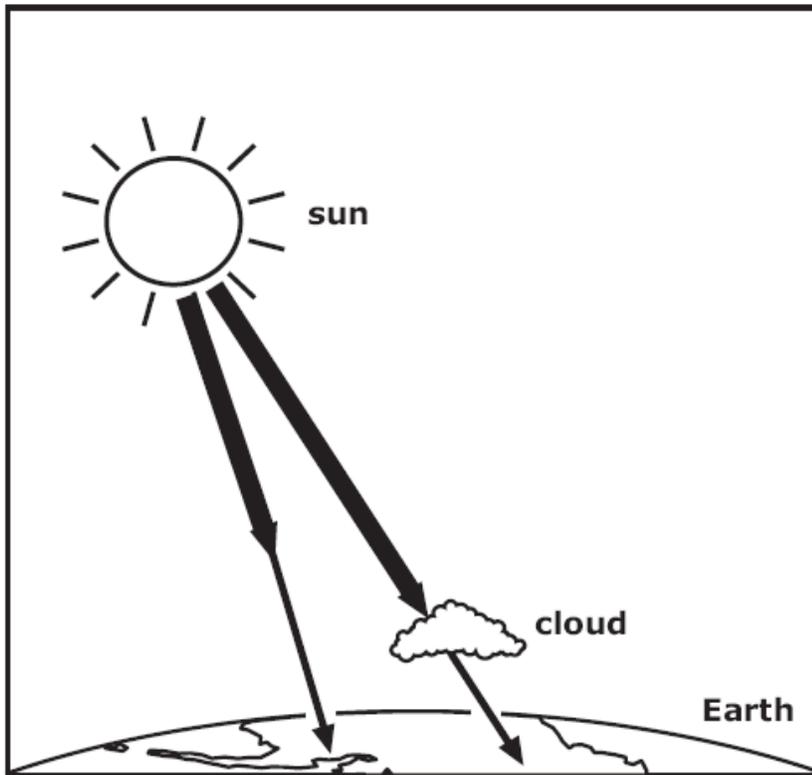


Why does the small particle in the middle move towards the left?

- A** Like charges attract.
- B** Unlike charges repel.
- C** Unlike charges attract.

### Sample Functional Independence Items

Use the picture below to answer question **R6**.



**R6** Why are the two light beams thinner at the bottom than at the top?

- A** The energy of the sun decreases during the day.
- B** Some energy is absorbed by the cloud and the air.
- C** None of the sun's energy reaches Earth's surface.

## Sample Functional Independence Items

**R7** Mining has both positive and negative effects.

What is one **positive** effect of sand mining?

- A** Sand mining helps the economy by creating jobs.
  - B** Sand mining helps the water quality of the river.
  - C** Moving the sand helps plant and animal habitats.
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**R8** How does water flow from the Great Lakes to the ocean?

- A** through a stream
- B** through a river
- C** through a wetland

## Sample Functional Independence Items

**R9** What is the **safest** thing for a person to do if trapped in a car by a blizzard?

- A** open all the windows to let in fresh air
- B** get out of the vehicle and walk to safety
- C** stay inside the vehicle as long as possible