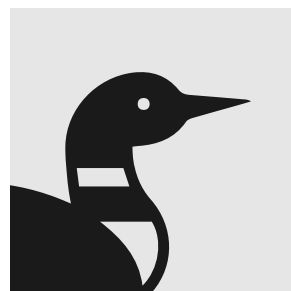
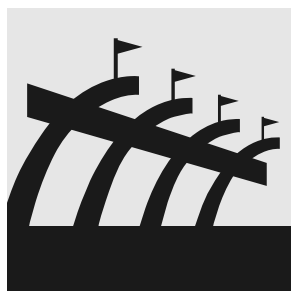
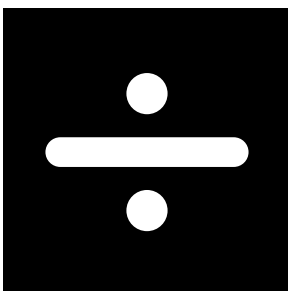
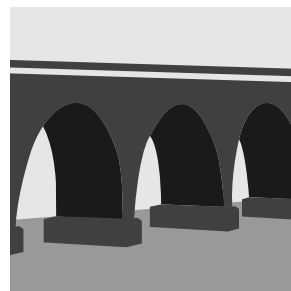


# MCA-IV

## Minnesota Comprehensive Assessments-Series IV



Science Test Book

All Grades  
MCA Paper Student Readiness Tool

# Symbols on the Test

You will see the following symbols in your test book:

Go on to the next page ►

This symbol means you can continue answering questions on the next page.



This symbol means you have finished a section of the test. You must wait until you are told to go to the next section.



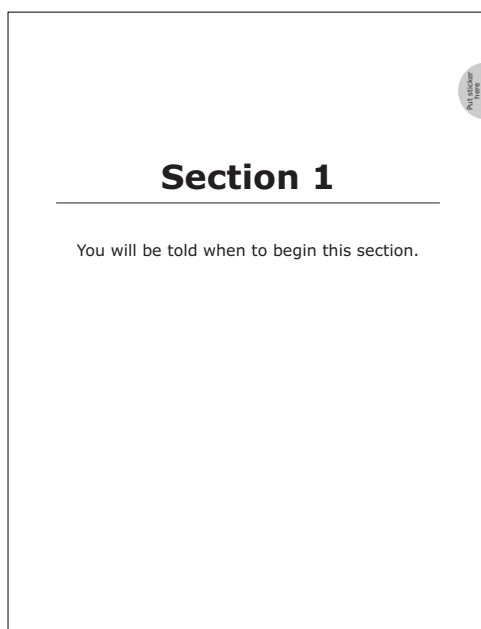
This symbol indicates where to place the sticker given to you by the Test Monitor to seal a finished section.

Go on to the next page ►

# Science Test Book General Information

Put sticker  
here

- Your science test will consist of two books: Phenomena Book and Test Book. Read the information in the phenomena book to help you answer questions in the test book.
- Your test book contains different sections. Section pages look like this:



- You can write notes in your test book or on scratch paper, but you must answer each question in the test book.
- You may use a handheld calculator for some questions.
- Your test book will include multiple-choice, constructed-response, multiple-response, and fill-in-the-blank questions.

Go on to the next page ►

# **Sample Questions: Pond Ecosystem**

Use the information in the SRT phenomena book to review the following sample questions.

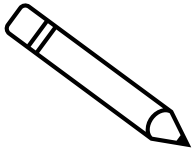
## Pond Ecosystem

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For multiple-choice questions, circle the answer in your test book. The sample question shows you how to do this.

### Sample Question

Based on the information in Tab A, which organisms from the pond ecosystem have shells?



- A.** Fish
- B.** Snails
- C.** Leeches
- D.** Ducks

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Go on to the next page ►

## Pond Ecosystem

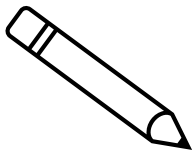
For constructed-response questions, write your answer on the lines provided in your test book. The sample question shows you how to do this.

### Sample Question

Using the information in Tab B, explain how the water cycle affects the pond.

In your response, be sure to do the following:

- Describe each part of the water cycle.
- Describe how the water cycle affects the pond.



The water cycle consists of evaporation.

The water cycle consists of condensation.

The water cycle consists of precipitation.

The water cycle affects the pond.

Go on to the next page ►

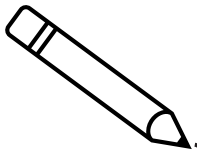
## Pond Ecosystem

For multiple-response questions, select your answers by marking the boxes provided. The sample question shows you how to do this.

### Sample Question

Based on the information in Tab A, which kind of animals did the students observe in the pond ecosystem?

**Select 2** kinds of animals that were observed in the pond ecosystem.



☐ Coyotes

☒ Ducks

☐ Mussels

☒ Snails

☐ Tigers

Go on to the next page ►

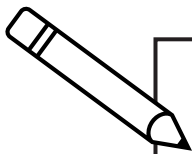
## Pond Ecosystem

For fill-in-the-blank questions, you will need to write the answer in the box provided. The sample question shows you how to do this.

### Sample Question

Based on the information in Tab B, how many steps are included in the water cycle picture made by the student?

Enter your answer in the box.



3

steps

Go on to the next page ►



**Go on to the next page.**



# **Practice Questions: Pet Species**

Use the information in the SRT phenomena book to practice answering the following questions.

### Practice

Using Tab A of the SRT phenomena book, practice answering this multiple-response question by marking the boxes next to Sphynx, Siamese, and American Shorthair.

1. Based on the information in Tab A, which breeds belong to the cat species?

**Select 3** kinds of breeds that belong to the cat species.

- ☐ Sphynx
- ☐ Beta
- ☐ Siamese
- ☐ Dalmatian
- ☐ American Shorthair

### Practice

Using Tab A and Tab B of the SRT phenomena book, practice answering this constructed-response question by writing your answer on the lines provided.

- 2.** Using the information in Tabs A and B, identify your favorite pet species and explain why.

In your response, be sure to do the following:

- Identify your favorite pet species.
- Explain why this species is your favorite.

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[illegible]

13

### Practice

Using Tab B of the SRT phenomena book, practice answering this multiple-choice question by circling option A.

- 3.** Based on the information in Tab B, which species of pet is most popular among the students?
- A.** Dogs
  - B.** Fish
  - C.** Cats
  - D.** Birds

### Practice

Put sticker  
here

Using Tab B of the SRT phenomena book, practice answering this fill-in-the-blank question by writing the sum 15 into the box provided.

4. Based on the information in Tab B, how many students own both dogs and fish?

Enter your answer in the box.

students

