



Coherence and Alignment Among Science Curriculum, Instruction, and Assessment (CASCIA) Project

Grade 5 Unit 3: Earth Systems and the Solution of Water Problems

Task 1 Prompt 1 Parts A-D Scored and Annotated Anchor Set

May 2025

Grade 5 Unit 3: Earth Systems and the Solution of Water Problems, Task 1 Prompt 1 Parts A-D Scored and Annotated Anchor Set was developed with funding from the U.S. Department of Education under the Competitive Grants for State Assessments Program CFDA 84.368A. The contents of this paper do not represent the policy of the U.S. Department of Education, and no assumption of endorsement by the Federal government should be made.

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CASCIA Grade 5 EOU Assessment 3 Task 1: Every Drop Counts

Prompt 1 Parts A-D Score Point 4

Prompt 1 Parts A-D Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Parts A – D.	No aspect of the response is correct	Response includes one (1) of the four (4) aspects	Response includes two (2) of the four (4) aspects	Response includes three (3) of the four (4) aspects	Response includes the following aspects: • A. Using the toilet • B. Using the dishwasher • C. 4.5 • D. 10

Score Point 4 (4/4 aspects met)

- Parts A-D
 - Includes the toilet as using the most water.
 - Includes the dishwasher as using the least water.
 - Includes saving 4.5 gallons of water by replacing the toilet.
 - Includes 10 flushes as the amount of water lost by a leaking toilet.

A. Which activity uses the **most** water in Figure 1?
Using the toilet

B. Which activity uses the **least** water in Figure 1?
Using the dishwasher

The average American family uses more than 300 gallons of water per day! Based on Figure 1, leaking standard toilets account for **15 gallons of water loss per day**, or 5,475 gallons per year. That's a lot of water loss!

Table 1 compares the water usage of two types of toilets.

Type of Toilet	Gallons per Flush
Standard	6.0
Low-flow	1.5

C. How much water would a homeowner save per flush by replacing a standard toilet with a low-flow toilet? 4.5 gallons

D. Per day, how many flushes of a low-flow toilet equal the amount of water lost by the leaking toilets in each household? 10 flushes

Handwritten calculations:

$$\begin{array}{r} 5610 \\ - 1.5 \\ \hline 4.5 \end{array}$$

CASCIA Grade 5 EOU Assessment 3 Task 1: Every Drop Counts

Prompt 1 Parts A-D Score Point 3

Prompt 1 Parts A-D Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Parts A – D.	No aspect of the response is correct	Response includes one (1) of the four (4) aspects	Response includes two (2) of the four (4) aspects	Response includes three (3) of the four (4) aspects	Response includes the following aspects: A. Using the toilet B. Using the dishwasher C. 4.5 D. 10

Score Point 3 (3/4 aspects met)

- Parts A-D
 - Includes the toilet using the most water.
 - Includes the dishwasher using the least water.
 - Does **NOT** include saving 4.5 gallons of water by replacing the toilet.
 - Includes ten flushes as the amount of water lost by a leaking toilet.

A. Which activity uses the **most** water in Figure 1?
using the toilet

B. Which activity uses the **least** water in Figure 1?
using dishwasher

The average American family uses more than 300 gallons of water per day! Based on Figure 1, leaking standard toilets account for **15 gallons of water loss per day**, or 5,475 gallons per year. That's a lot of water loss!

Table 1 compares the water usage of two types of toilets.

Type of Toilet	Gallons per Flush
Standard	6.0
Low-flow	1.5

C. How much water would a homeowner save per flush by replacing a standard toilet with a low-flow toilet? 5.5 gallons

D. Per day, how many flushes of a low-flow toilet equal the amount of water lost by the leaking toilets in each household? 10 flushes

CASCIA Grade 5 EOU Assessment 3 Task 1: Every Drop Counts

Prompt 1 Parts A-D Score Point 2

Prompt 1 Parts A-D Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Parts A – D.	No aspect of the response is correct	Response includes one (1) of the four (4) aspects	Response includes two (2) of the four (4) aspects	Response includes three (3) of the four (4) aspects	Response includes the following aspects: • A. Using the toilet • B. Using the dishwasher • C. 4.5 • D. 10

Score Point 2 (2/4 aspects met)

- Parts A-D
 - Includes the toilet using the most water.
 - Includes the dishwasher using the least water.
 - Does **NOT** include saving 4.5 gallons of water by replacing the toilet.
 - Does **NOT** include ten flushes as the amount of water lost by a leaking toilet.

A. Which activity uses the most water in Figure 1?
Toilet

B. Which activity uses the least water in Figure 1?
Dishwasher

The average American family uses more than 300 gallons of water per day! Based on Figure 1, leaking standard toilets account for **15 gallons of water loss per day**, or 5,475 gallons per year. That's a lot of water loss!

Table 1 compares the water usage of two types of toilets.

Type of Toilet	Gallons per Flush
Standard	6.0
Low-flow	1.5

C. How much water would a homeowner save per flush by replacing a standard toilet with a low-flow toilet? 1.5 gallons

D. Per day, how many flushes of a low-flow toilet equal the amount of water lost by the leaking toilets in each household? 4 flushes

CASCIA Grade 5 EOU Assessment 3 Task 1: Every Drop Counts

Prompt 1 Parts A-D Score Point 1

Prompt 1 Parts A-D Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Parts A – D.	No aspect of the response is correct	Response includes one (1) of the four (4) aspects	Response includes two (2) of the four (4) aspects	Response includes three (3) of the four (4) aspects	Response includes the following aspects: A. Using the toilet B. Using the dishwasher C. 4.5 D. 10

Score Point 1 (1/4 aspects met)

- Parts A-D
 - Includes the toilet using the most water.
 - Does **NOT** include the dishwasher using the least water.
 - Does **NOT** include saving 4.5 gallons of water by replacing the toilet.
 - Does **NOT** include ten flushes as the amount of water lost by a leaking toilet.

A. Which activity uses the **most** water in Figure 1?

28% Using the toilet

B. Which activity uses the **least** water in Figure 1?

5% leaking toilet

The average American family uses more than 300 gallons of water per day! Based on Figure 1, leaking standard toilets account for **15 gallons of water loss per day**, or 5,475 gallons per year. That's a lot of water loss!

Table 1 compares the water usage of two types of toilets.

Table 1. Toilet Water Usage

Type of Toilet	Gallons per Flush
Standard	6.0
Low-flow	1.5

C. How much water would a homeowner save per flush by replacing a standard toilet with a low-flow toilet? 285 gallons

D. Per day, how many flushes of a low-flow toilet equal the amount of water lost by the leaking toilets in each household? 1200 flushes

CASCIA Grade 5 EOU Assessment 3 Task 1: Every Drop Counts

Prompt 1 Parts A-D Score Point 0

Prompt 1 Parts A-D Rubric

Prompt	Score Point 0	Score Point 1	Score Point 2	Score Point 3	Score Point 4
Prompt 1 Parts A – D.	No aspect of the response is correct	Response includes one (1) of the four (4) aspects	Response includes two (2) of the four (4) aspects	Response includes three (3) of the four (4) aspects	Response includes the following aspects: A. Using the toilet B. Using the dishwasher C. 4.5 D. 10

Score Point 0 (0/4 aspects met)

- Parts A-D
 - Does **NOT** include the toilet using the most water.
 - Does **NOT** include the dishwasher using the least water.
 - Does **NOT** include saving 4.5 gallons of water by replacing the toilet.
 - Does **NOT** include ten flushes as the amount of water lost by a leaking toilet.

A. Which activity uses the most water in Figure 1?

28%, 22% and 21%

B. Which activity uses the least water in Figure 1?

12%, 9%, 5% and 3%

The average American family uses more than 300 gallons of water per day! Based on Figure 1, leaking standard toilets account for **15 gallons of water loss per day**, or 5,475 gallons per year. That's a lot of water loss!

Table 1 compares the water usage of two types of toilets.

Table 1. Toilet Water Usage

Type of Toilet	Gallons per Flush
Standard	6.0
Low-flow	1.5

C. How much water would a homeowner save per flush by replacing a standard toilet with a low-flow toilet? 1.5 gallons

D. Per day, how many flushes of a low-flow toilet equal the amount of water lost by the leaking toilets in each household? 6.0 flushes