

### Minnesota Test of Academic Skills Grade 5 Science Sample Task 1

Test Administrator Instructions	Score	Student Responses		
<ul> <li>Administration notes:</li> <li>You may use objects when presenting questions and answer options. However, some tasks limit how objects can be used; any limitations will be specified on the task.</li> <li>Repeat the question exactly as it appears at score 3 as many times as needed until the student responds or until it is clear that the student will not respond.</li> </ul>				
Present: S5_Sample 1		Ruler		
<ul> <li><u>Say</u>: Here is a pencil. Which tool measures the length of the pencil?</li> <li><u>Present</u> the answer options in order. <i>Point to each option as you say it.</i></li> <li>A. Ruler</li> <li>B. Hand lens</li> <li>C. Thermometer</li> </ul>	3	If you believe the student's correct response was unintentional, reorder the answer options to B, C, A (instead of A, B, C). Repeat the question. If the student chooses the correct answer again, the task should be scored a 3. If the student chooses an incorrect answer, continue below.		
Additional administration notes: If the student responds incorrectly or not at all, present the task with support as scripted. Once additional support is provided, the task may not be re-administered for a score of 3.				
Re-present: S5_Sample 1		Ruler		
Say: One of these tools can show how long the pencil is. Which tool measures the length of the pencil? Re-present the answer options in order. Point to each option as you say it. A. Ruler B. Hand lens C. Thermometer	2	If you believe the student's correct response was unintentional, reorder the answer options to B, C, A (instead of A, B, C). Repeat the question. If the student chooses the correct answer again, the task should be scored a 2. If the student chooses an incorrect answer, the task should be scored a 1.		
	1	Hand lens or Thermometer		
	0	Unrelated or none		

**Grade 5 Science 3.1.3.4.1:** The student will identify ools appropriate for a given scientific investigation.

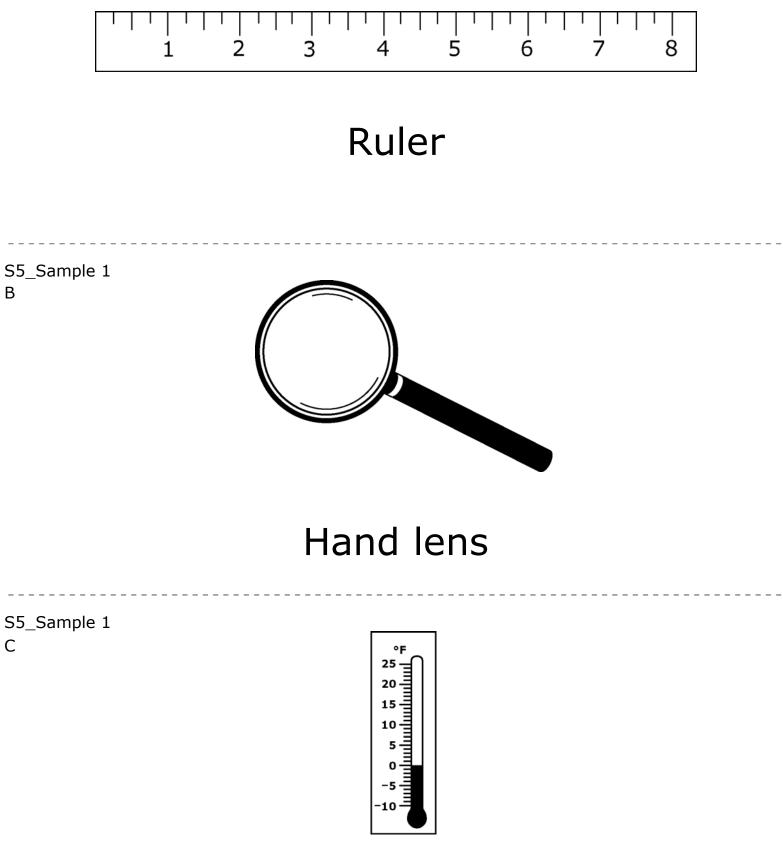
S5\_Sample 1



Pencil

## Which tool measures the length of the pencil?

S5\_Sample 1 A



# Thermometer

### Minnesota Test of Academic Skills Grade 5 Science Sample Task 2

Test Administrator Instructions	Score	Student Responses		
<ul> <li>Administration notes:</li> <li>You may use objects when presenting questions and answer options. However, some tasks limit how objects can be used; any limitations will be specified on the task.</li> <li>Repeat the question exactly as it appears at score 3 as many times as needed until the student responds or until it is clear that the student will not respond.</li> </ul>				
Present: S5_Sample 2		Solid to liquid		
<ul> <li>Say: A student takes a frozen treat out of the freezer. It melts. Which change happens to the frozen treat?</li> <li>Present the answer options in order. Point to each option as you say it.</li> <li>A. Solid to liquid</li> <li>B. Solid to solid</li> <li>C. Solid to gas</li> </ul>	3	If you believe the student's correct response was unintentional, reorder the answer options to B, C, A (instead of A, B, C). Repeat the question. If the student chooses the correct answer again, the task should be scored a 3. If the student chooses an incorrect answer, continue below.		
Additional administration notes: If the student responds incorrectly or not at all, present the task with support as scripted. Once additional support is provided, the task may not be re-administered for a score of 3.				
Re-present: S5_Sample 2		Solid to liquid		
Say: A student takes a frozen treat out of the freezer. The frozen treat gets warm and melts. Which change happens to the frozen treat? <u>Re-present</u> the answer options in order. <i>Point</i> <i>to each option as you say it.</i> A. Solid to liquid B. Solid to solid C. Solid to gas	2	If you believe the student's correct response was unintentional, reorder the answer options to B, C, A (instead of A, B, C). Repeat the question. If the student chooses the correct answer again, the task should be scored a 2. If the student chooses an incorrect answer, the task should be scored a 1.		
-	1	Solid to solid or Solid to gas		
	0	Unrelated or none		

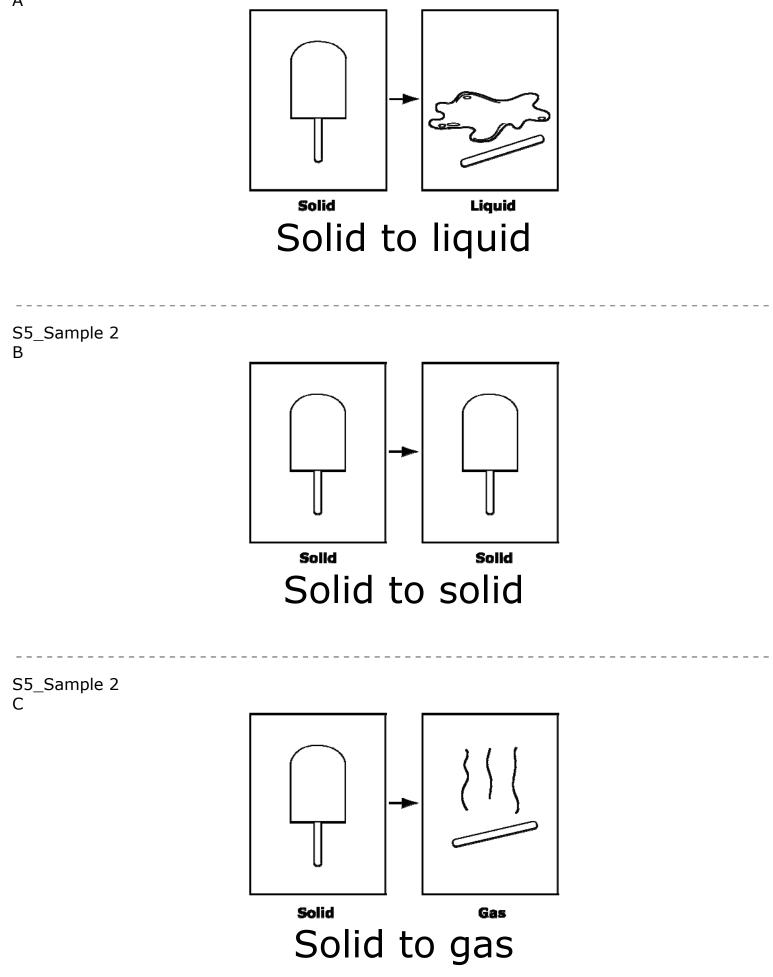
**Grade 5 Science 4.2.1.2.2:** The student will identify and describe how states of matter change as a result of heating and cooling.

S5\_Sample 2



Which change happens to the frozen treat?

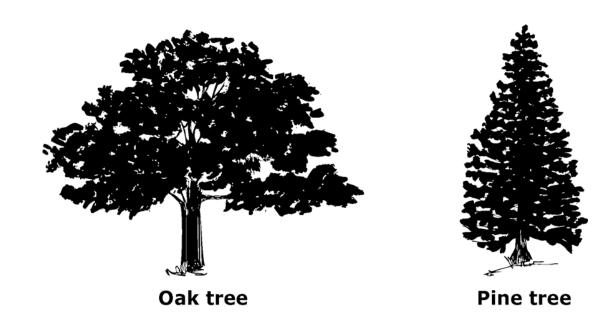




### Minnesota Test of Academic Skills Grade 5 Science Sample Task 3

Test Administrator Instructions	Score	Student Responses		
<ul> <li>Administration notes:</li> <li>You may use objects when presenting questions and answer options. However, some tasks limit how objects can be used; any limitations will be specified on the task.</li> <li>Repeat the question exactly as it appears at score 3 as many times as needed until the student responds or until it is clear that the student will not respond.</li> </ul>				
Present: S5_Sample 3		Plant C (maple tree)		
Say: Here are some plants. Which plant belongs with the oak and pine trees? <u>Present</u> the answer options in order (bean plant, flower, maple tree). <i>Point to each</i> <i>option as you say it.</i> <b>A. Plant A</b> (bean plant) <b>B. Plant B</b> (flower) <b>C. Plant C</b> (maple tree)	3	If you believe the student's correct response was unintentional, reorder the answer options to B, C, A (instead of A, B, C). Repeat the question. If the student chooses the correct answer again, the task should be scored a 3. If the student chooses an incorrect answer, continue below.		
<ul> <li>Additional administration notes:</li> <li>If the student responds incorrectly or not at all, present the task with support as scripted.</li> <li>Once additional support is provided, the task may not be re-administered for a score of 3.</li> </ul>				
<u>Re-present</u> : S5_Sample 3		Plant C <i>(maple tree)</i>		
Say: Here are some plants. Plants that are similar can be grouped together. Which plant belongs with the oak and pine trees? <u>Re-present</u> the answer options in order (bean plant, flower, maple tree). <i>Point to</i> <i>each option as you say it.</i> <b>A. Plant A</b> ( <i>bean plant</i> ) <b>B. Plant B</b> (flower)	2	If you believe the student's correct response was unintentional, reorder the answer options to B, C, A (instead of A, B, C). Repeat the question. If the student chooses the correct answer again, the task should be scored a 2. If the student chooses an incorrect answer, the task should be scored a 1.		
<b>C. Plant C</b> (maple tree)	1	Plant A <i>(bean plant)</i> or Plant B <i>(flower)</i>		
	0	Unrelated or none		

**Grade 5 Science 3.4.1.1.2:** The student will group plants and/or animals based on their physical characteristics.



## Which plant belongs with the oak and pine trees?



# Plant A

#### S5\_Sample 3 B



### Plant B

S5\_Sample 3 C



#### MTAS Science Object List (OPTIONAL) Science Released Questions

The MTAS Object Lists for mathematics and science include examples of objects and other variations in the presentation of the MTAS tasks. Some common ways to vary the task presentation include (1) using Braille text and tactile graphics, enlarging, or texturizing print and (2) supplementing numbers in tasks with some type of counter. These variations may be used with nearly all math and science tasks unless explicitly prohibited in the task script.

Keep in mind that these lists provide recommendations only; test administrators may use different objects and/or text formats to make tasks more accessible for individual students as long as students are not provided with additional content information. For example, several math tasks incorporate a number line with an unlabeled point. Number lines used in classrooms may not be appropriate for all of the MTAS tasks if all points are labeled.

Please contact MDE (mde.testing@state.mn.us) if you have questions about objects that may be used to represent MTAS tasks.

Task	Objects
Grade 5	Present task using an object:
Sample 01	1 pencil
	Present answer options using objects or tactile graphics:
	1 ruler
	1 hand lens
	1 thermometer
Grade 5	Present task using an object or picture:
Sample 02	1 frozen treat on a stick such as a popsicle
	Present answer options using objects, pictures, or tactile graphics to represent pictures on presentation page:
	4 frozen treats
	2 popsicle sticks
	2 – 3 tablespoons colored water
Grade 5	Present task using objects, pictures, or tactile graphics:
Sample 03	1 oak tree
•	1 pine tree
	Present answer options using objects, pictures, or tactile graphics:
	1 bean plant
	1 flower
	1 maple tree