



Mathematics Materials Collections

2020 Year-End Model Spring Assessment Window

Dynamic Learning Maps® (DLM®) testlets sometimes call for the use of specific materials. The Testlet Information Page (TIP) for each testlet identifies these materials. Sometimes materials are required and cannot be substituted, but substitutes are allowed in most cases. If a testlet requires materials, the TIP will state the specific materials mentioned in the testlet and describe their attributes so that test administrators can find appropriate substitutions. For more information about substituting materials, see the TEST ADMINISTRATION MANUAL section titled Teacher-Administered Testlets.

Since the DLM system uses adaptive delivery to assign a linkage level for each testlet, the system provides the TIP when each testlet is assigned. Therefore, the exact materials needed in order to assess each student are unknown prior to the opening of the spring assessment window.

The list below contains materials commonly needed in mathematics testlets and gives test administrators more opportunity to prepare for the mathematics alternate assessment prior to the opening of the assessment window. The tables in this document summarize lists of materials per grade level for general testlets and, where appropriate, for students who are blind or have visual impairments. **Materials may be substituted unless the TIP specifically states “No substitutions allowed.”**

Hints for using this list

- Look at the whole list for each grade and find materials that can meet multiple purposes. Note the types of materials mentioned more than once.
- Find materials that already exist in the classroom or are easily found in the school building.
- Pick materials that are familiar to the student.
- Remember that in most cases materials can be substituted as long as they have the same attributes as those on the list. Examples of possible substitutions are found in the table below.
- Materials substitutions are listed for individual testlets on the corresponding TIP.
- The student’s safety should be the primary concern when choosing materials or substitutions.

Example Materials Description	Possible Substitution
two sets of identical objects packaged together (packs of crayons, pencils, markers)	use two identical packs of flash cards
two objects that are the same size, and one object that is smaller than the other two	use two flash cards that are the same size and a smaller playing card

Contained in this document

- Lists by grade of common materials used in mathematics testlets.
- Lists by grade of common materials that may be used to administer testlets to students who are blind or have visual impairments. Some mathematics testlets are special forms designed for students who are blind or have visual impairments, while others are general testlets that have been adapted to make them more accessible.

Grade 3	Common Materials Used to Administer Testlets
---------	--

- 1 eight-inch ribbon
- 1 four-foot ribbon
- 1 large blue block
- 1 large cube
- 1 large plate
- 1 large tube sock
- 1 large yellow block
- 1 long pencil
- 1 long thin crayon
- 1 paper clip
- 1 rubber band (or piece of string)
- 1 short pencil
- 1 short, thick crayon
- 1 six-inch ribbon
- 1 small ankle sock
- 1 small blue block
- 1 small bowl
- 1 small cube
- 1 small plate
- 1 tape measure
- 1 two-foot ribbon
- 2 gloves
- 2 identical 16-count boxes of crayons
- 2 identical bags
- 2 identical blocks
- 2 identical glue sticks
- 2 identical puzzles with 4 or more pieces
- 2 identical unpeeled stickers
- 2 markers with caps
- 5 erasers
- 50 pennies
- 6 glue sticks
- 6 index cards
- 6 trays
- 8 dominoes
- 8 paint brushes
- cards numbered 1 to 30
- piece of string that is 1 foot
- piece of string that is 2 feet
- piece of string that is 3 feet in length
- yardstick with feet clearly marked

Grade 3	Common Materials Used to Administer Testlets for Students Who Are Blind or Have Visual Impairments
	<ul style="list-style-type: none"> • 1 set of 60 objects • 1 six-inch object • 1 small circle • 1 star divided into 4 unequal parts • 1 star divided into 6 unequal parts • 1 subtraction sign • 1 tactile material to create groups • 1 tactile picture graph • 1 tactile ruler • 1 tactile yardstick • 1 three-inch object • 1 twelve-inch object • 1 twenty-four-inch object • 1 two-inch object • 1 whole congruent rectangle • 1 whole star • 18 containers • 18 ones • 2 containers with 7 compartments • 2 four-inch objects • 2 rectangles divided into four unequal parts • 2 rectangles divided into three unequal parts • 2 rectangles divided into two unequal parts • 2 tactile bar graphs • 2 ten-dollar bills • 3 containers with 6 compartments each • 3 medium triangles • 3 objects to serve as informal units of measurement which vary in size • 3 sets of 2 objects where the objects within each set vary in length • 3 small triangles • 3 squares • 3 tactile number charts • 4 sets of 2 objects • 5 large triangles • 8 tens

Grade 4	Common Materials Used to Administer Testlets
	<ul style="list-style-type: none"> • 1 apple or orange split into 4 parts • 1 big bowl • 1 book • 1 clear 1/2-gallon pitcher • 1 clear 4-cup measuring cup with the number of cups clearly marked • 1 cup • 1 key • 1 paper plate • 1 picture • 1 rough towel • 1 rubber band (or piece of string) • 1 set of 20 objects • 1 small bowl • 1 tactile material to create groups • 1 whole apple or orange • 2 identical 12-count boxes of colored pencils • 2 identical adhesive bandages • 2 identical folders • 2 identical markers • 2 identical notebooks • 2 identical pens • 2 identical soft towels • 2 pots • 6 erasers • 6 paperclips • food coloring • water

Grade 4	Common Materials Used to Administer Testlets for Students Who Are Blind or Have Visual Impairments
	<ul style="list-style-type: none"> • 1 circle divided into 2 unequal parts • 1 circle divided into 3 unequal parts • 1 circle divided into 4 unequal parts • 1 circle divided into 6 unequal parts • 1 circle divided into fourths • 1 circle divided into halves • 1 circle divided into sixths • 1 circle representing $\frac{1}{10}$ • 1 circle representing $\frac{1}{2}$ • 1 circle representing $\frac{1}{3}$ • 1 circle representing $\frac{1}{4}$ • 1 circle representing $\frac{1}{8}$ • 1 circle with a radius of 1 unit • 1 continuous substance • 1 cube measuring 1 x 1 x 1 • 1 dime • 1 dollar bill • 1 large container • 1 nickel • 1 penny • 1 quarter • 1 rectangle divided into 2 unequal parts • 1 rectangle divided into 3 unequal parts • 1 rectangle divided into 4 unequal parts • 1 rectangle divided into fourths • 1 rectangle divided into halves • 1 rectangle divided into sixths • 1 rectangle measuring 12 x 6 • 1 rectangle measuring 3 x 1 • 1 rectangle measuring 5 x 8 • 1 rectangle measuring 6 x 4 • 1 rectangle measuring 9 x 7 • 1 rectangle representing $\frac{1}{2}$ • 1 rectangle representing $\frac{1}{4}$ • 1 rectangle representing $\frac{2}{3}$ • 1 rectangle representing $\frac{9}{10}$ • 1 rectangle with discernible square units measuring 10 x 5 • 1 rectangle with discernible square units measuring 3 x 3 • 1 rectangle with discernible square units measuring 3 x 4 • 1 rectangle with discernible square units measuring 3 x 5 • 1 rectangle with discernible square units measuring 4 x 2 • 1 rectangle with discernible square units measuring 4 x 3

Grade 4	Common Materials Used to Administer Testlets for Students Who Are Blind or Have Visual Impairments
	<ul style="list-style-type: none"> • 1 rectangle with discernible square units measuring 4 x 3 with 3 square units missing • 1 rectangle with discernible square units measuring 4 x 5 • 1 rectangle with discernible square units measuring 5 x 2 • 1 rectangle with discernible square units measuring 5 x 3 • 1 rectangle with discernible square units measuring 6 x 4 • 1 rectangle with discernible unit squares measuring 5 x 4 • 1 round object • 1 set of 20 objects to serve as informal units of measure • 1 small acute angle • 1 small container • 1 square divided into 2 equal parts • 1 square measuring 1 x 1 • 1 square measuring 3 x 3 • 1 square object • 1 square representing $\frac{1}{4}$ • 1 square representing $\frac{3}{4}$ • 1 tactile material to create groups • 1 ten-cup container • 1 triangle divided into 2 equal parts • 1 triangular object • 1 two-cup container • 1 two-ounce object • 1 two-pound object • 12 Set A objects • 15 Set B objects • 2 large congruent acute angles • 2 sets of 4 containers • 3 balance scales • 3 obtuse angles • 3 right angles • 3 small circles • 3 tactile analog clocks • 4 squares • 6 identical containers • 6 non-money objects • 8 tactile digital clocks • 9 small triangles • tactile letters and numbers

Grade 5	Common Materials Used to Administer Testlets
---------	--

- 1 basket
- 1 big index card
- 1 box
- 1 crayon
- 1 empty container measuring 4" x 4" x 3"
- 1 empty container measuring 5" x 8" x 2"
- 1 empty container measuring 6" x 2" x 3"
- 1 empty square container
- 1 empty water bottle
- 1 full water bottle with a colored liquid
- 1 rubber band
- 1 small index card
- 1 towel
- 100 one-inch unit cubes
- 2 identical 12-count packs of pens
- 2 identical books
- 2 identical cards
- 2 identical cups
- 2 identical empty egg cartons
- 2 identical erasers
- 2 identical pencils
- 2 identical pieces of paper
- 2 markers
- 24 plastic eggs
- 5 checkers
- 5 spoons
- 6 envelopes
- 7 blocks
- 7 colored pencils
- 7 number cubes
- 8 cards
- 8 pencils

Grade 5	Common Materials Used to Administer Testlets for Students Who Are Blind or Have Visual Impairments
---------	--

- 1 circle divided into halves
- 1 circle representing $\frac{1}{3}$
- 1 circle representing $\frac{1}{4}$
- 1 circle representing $\frac{2}{3}$
- 1 circle representing $\frac{2}{8}$
- 1 circle representing $\frac{3}{3}$
- 1 circle representing $\frac{3}{4}$
- 1 container packed with unit cubes
- 1 cube measuring $1 \times 1 \times 1$
- 1 equilateral triangle
- 1 heart
- 1 large cone
- 1 large cylinder
- 1 large rectangle
- 1 obtuse scalene triangle
- 1 rectangle representing $\frac{1}{10}$
- 1 rectangle representing $\frac{1}{3}$
- 1 rectangle representing $\frac{2}{10}$
- 1 rectangle representing $\frac{2}{3}$
- 1 rectangle representing $\frac{2}{5}$
- 1 rectangle representing $\frac{2}{8}$
- 1 rectangle representing $\frac{3}{8}$
- 1 rectangle representing $\frac{4}{10}$
- 1 rectangle representing $\frac{6}{10}$
- 1 rectangle representing $\frac{6}{8}$
- 1 rectangle representing $\frac{7}{10}$
- 1 rectangle representing $\frac{8}{10}$
- 1 rectangle representing $\frac{9}{10}$
- 1 rectangular prism measuring $2 \times 2 \times 1$
- 1 rectangular prism measuring $3 \times 2 \times 1$
- 1 rectangular prism measuring $3 \times 2 \times 2$
- 1 rectangular prism with discernible cubic units measuring $2 \times 1 \times 2$
- 1 rectangular prism with discernible cubic units measuring $3 \times 1 \times 1$
- 1 rectangular prism with discernible cubic units measuring $3 \times 1 \times 2$
- 1 rectangular prism with discernible cubic units measuring $4 \times 1 \times 1$
- 1 rectangular prism with discernible cubic units measuring $4 \times 1 \times 2$
- 1 small cylinder
- 1 small rectangle
- 1 sphere
- 1 square divided into 2 unequal parts
- 1 square divided into 3 unequal parts
- 1 square divided into fourths

Grade 5	Common Materials Used to Administer Testlets for Students Who Are Blind or Have Visual Impairments
	<ul style="list-style-type: none"> • 1 square divided into halves • 1 square representing $\frac{1}{2}$ • 1 square representing $\frac{1}{3}$ • 1 square representing $\frac{3}{4}$ • 1 tactile material to create groups • 1 tactile table • 1 triangular prism • 10 unit cubes • 17 connecting cubes • 2 circles divided into 3 unequal parts • 2 congruent cubes • 2 congruent ellipses • 2 congruent hexagons • 2 congruent rectangles • 2 congruent squares • 2 congruent stars • 2 congruent trapezoids • 2 congruent triangles • 2 large squares • 2 medium circles • 2 medium triangles • 2 small circles • 2 small congruent cones • 2 small triangles • 2 squares divided into 4 unequal parts • 3 tactile bar graphs • 3 tactile number lines • 3 tactile picture graphs • 35 stackable objects • 4 tactile line plots • 5 large circles • 6 large triangles • 8 ones • 8 tens

Grade 6	Common Materials Used to Administer Testlets
<ul style="list-style-type: none">• 1 bag• 1 empty box of tea bags• 1 empty shoe box• 1 empty tissue box• 1 rubber band• 2 baskets• 2 bowls• 2 dry sponges varying in size• 2 hard cover books• 2 packs of gum• 2 plastic cups• 2 soft cover books• 2 wet sponges varying in size• 200 one-inch unit cubes• 3 blocks that vary in size• 3 empty square containers of varying sizes• 3 pencils that vary in length• 4 markers• 4 pencils• 5 number cubes• 6 erasers• 6 glue sticks• 7 colored chips• 7 rulers• 8 dominoes• 8 folders• 8 pens	

Grade 6	Common Materials Used to Administer Testlets for Students Who Are Blind or Have Visual Impairments
	<ul style="list-style-type: none"> • 1 circle divided into 2 unequal parts • 1 circle divided into 3 unequal parts • 1 circle divided into fourths • 1 circle divided into halves • 1 circle divided into thirds • 1 circle representing $\frac{1}{10}$ • 1 circle representing $\frac{1}{2}$ • 1 circle representing $\frac{1}{3}$ • 1 circle representing $\frac{1}{4}$ • 1 circle representing $\frac{2}{3}$ • 1 circle representing $\frac{3}{4}$ • 1 circle representing $\frac{8}{10}$ • 1 container with 10 compartments • 1 container with 4 compartments • 1 continuous substance • 1 cube measuring $1 \times 1 \times 1$ • 1 hexagon • 1 rectangle divided into 3 unequal parts • 1 rectangle divided into fourths • 1 rectangle divided into halves • 1 rectangle divided into thirds • 1 rectangle measuring $\frac{1}{3} \times 3$ • 1 rectangle measuring 6×10 • 1 rectangle measuring 6×4 • 1 rectangle representing $\frac{1}{2}$ • 1 rectangle representing $\frac{2}{3}$ • 1 rectangle representing $\frac{3}{4}$ • 1 rectangle with 1 half shaded • 1 rectangle with discernible square units measuring 2×3 • 1 rectangle with discernible square units measuring 4×3 • 1 rectangle with discernible square units measuring 4×6 • 1 rectangle with discernible square units measuring 4×7 • 1 rectangle with discernible square units measuring 5×3 • 1 rectangle with discernible square units measuring 5×5 • 1 rectangle with discernible square units measuring 6×4 • 1 rectangle with discernible square units measuring 6×6 • 1 rectangle with the area shaded • 1 rectangle with the border shaded • 1 rectangle with the perimeter shaded • 1 rectangular prism measuring $2 \times 1 \times 1$ • 1 rectangular prism with discernible cubic units measuring $2 \times 2 \times 1$ • 1 rectangular prism with discernible cubic units measuring $2 \times 6 \times 1$

Grade 6	Common Materials Used to Administer Testlets for Students Who Are Blind or Have Visual Impairments
	<ul style="list-style-type: none"> • 1 rectangular prism with discernible cubic units measuring 3 x 3 x 1 • 1 rectangular prism with discernible cubic units measuring 5 x 4 x 1 • 1 set of 28 objects • 1 square divided into 2 unequal parts • 1 square divided into 4 unequal parts • 1 square divided into halves • 1 square measuring 1 x 1 • 1 square measuring 2 x 2 • 1 square measuring 3 x 3 • 1 square measuring 4 x 4 • 1 square measuring 5 x 5 • 1 square with discernible square units measuring 3 x 3 • 1 tactile grid • 1 tactile material to create groups • 1/10 of a circle • 2 circles divided into 4 unequal parts • 2 objects without the measurable attribute of volume • 2 rectangles divided into 2 unequal parts • 2 rectangles divided into 4 unequal parts • 2 tactile line plots • 3 containers with 3 compartments each • 3 tactile line graphs • 3 tactile number lines • 3 tactile thermometers • 6 identical containers • 6 tactile bar graphs

Grade 7	Common Materials Used to Administer Testlets
<ul style="list-style-type: none">• 1 ball• 1 large shirt without buttons• 1 rubber band (or piece of string)• 1 small shirt with buttons• 1 small shirt without buttons• 2 identical 12-count boxes of colored pencils• 2 identical 7-count packs of toy cars• 2 identical 8-count boxes of markers• 2 identical cups• 2 identical decks of playing cards in their boxes• 2 identical notecards• 5 notebooks• 7 dominoes• 8 glue sticks	

Grade 7	Common Materials Used to Administer Testlets for Students Who Are Blind or Have Visual Impairments
	<ul style="list-style-type: none"> • 1 circle representing $\frac{2}{6}$ • 1 circle representing $\frac{3}{6}$ • 1 circle representing $\frac{4}{6}$ • 1 circle representing $\frac{6}{6}$ • 1 cone • 1 cylinder • 1 line segment • 1 object with the measurable attribute of weight • 1 octagon • 1 pentagon • 1 pyramid • 1 rectangle divided into 2 unequal parts • 1 rectangle divided into fourths • 1 rectangle divided into halves • 1 rectangle measuring 2×5 • 1 rectangle measuring 3×4 • 1 rectangle measuring 4×2 • 1 rectangle measuring 7×3 • 1 rectangle with discernible square units measuring 2×6 • 1 rectangle with discernible square units measuring 3×2 • 1 right triangle • 1 set of objects where the set contains 1 whole object and 2 or more parts from an identical object • 1 small cube • 1 small sphere • 1 square measuring 2×2 • 1 square with discernible square units measuring 3×3 • 1 tactile material to create groups • $\frac{1}{2}$ of a circle • $\frac{1}{3}$ of a circle • $\frac{1}{4}$ of a circle • 2 circles representing $\frac{1}{6}$ • 2 large cubes • 2 objects with the measurable attribute of height • 2 objects without the measurable attribute of height • 2 rectangles divided into 4 unequal parts • 2 triangles • 3 addition signs • 3 tactile coordinate grids • 33 objects • 5 number cubes • 5 squares

Grade 7	Common Materials Used to Administer Testlets for Students Who Are Blind or Have Visual Impairments
	<ul style="list-style-type: none">• 6 circles

Grade 8	Common Materials Used to Administer Testlets
<ul style="list-style-type: none">• 1 blank piece of paper• 1 large black sock• 1 large paper plate• 1 large white sock• 1 small paper plate• 1 small porcelain plate• 1 small white sock• 11 counting chips• 2 empty cups• 2 empty water bottles• 2 full cups• 2 full water bottles (liquid should have color)• 2 identical 20-count sheets of stickers• 2 identical glue sticks• 2 metal spoons varying in size• 2 plastic spoons varying in size• 3 plates that vary in size• 5 pens• 5 spoons• 7 paper clips• 7 tangrams• enough counters to fill 2 cups	

Grade 8	Common Materials Used to Administer Testlets for Students Who Are Blind or Have Visual Impairments
	<ul style="list-style-type: none"> • 1 acute angle • 1 angle measuring 100 degrees • 1 angle measuring 40 degrees • 1 arc • 1 circle • 1 circle divided into thirds • 1 circle representing $\frac{1}{8}$ • 1 circle representing $\frac{4}{8}$ • 1 circle representing $\frac{8}{8}$ • 1 dollar sign • 1 obtuse angle • 1 ray • 1 rectangle measuring 12 x 9 • 1 rectangle measuring 18 x 9 • 1 rectangle measuring 6 x 5 • 1 rectangular prism measuring 3 x 4 x 8 • 1 rectangular prism measuring 6 x 10 x 5 • 1 rectangular prism measuring 9 x 6 x 8 • 1 set of 30 identical objects • 1 set of complementary angles • 1 set of non-complementary, non-supplementary adjacent angles • 1 set of supplementary angles • 1 square divided into fourths • 1 square representing $\frac{1}{1}$ • 1 square representing $\frac{1}{2}$ • 1 square representing $\frac{1}{4}$ • 1 tactile line plot • 1 tactile material to create groups • 2 angles measuring 50 degrees • 2 angles measuring 80 degrees • 2 circles divided into 3 unequal parts • 2 right angles • 2 squares divided into 4 unequal parts • 3 tactile bar graphs • 3 tactile function tables • 3 tactile picture graphs • 3 tactile tables • 3 tactile tally charts • 4 containers with 10 compartments each • 41 objects • 5 sets of objects where each set contains 1 whole object and 1 part of an identical object

Grade HS	Common Materials Used to Administer Testlets
	<ul style="list-style-type: none"> • 1 binder • 1 bottle • 1 large paper cup • 1 large paper plate • 1 marker • 1 rubber band (or piece of string) • 1 small ceramic plate • 1 small paper plate • 1 yardstick • 2 bent paper clips varying in size • 2 blocks • 2 closed boxes • 2 craft sticks • 2 empty jars varying in size • 2 full jars varying in size • 2 identical 12-count boxes of colored pencils • 2 identical 6-count packs of glue sticks • 2 identical balls • 2 identical envelopes • 2 identical erasers • 2 identical highlighters • 2 identical keys • 2 identical napkins • 2 identical notebooks • 2 identical small paper cups • 2 long rulers • 2 metal spoons varying in size • 2 open boxes • 2 pattern blocks • 2 plastic spoons varying in size • 2 short rulers • 2 unbent paper clips varying in size • 3 buttons • 3 calculators • 3 cards • 3 clothespins • 3 cups varying in size • 3 highlighters • 3 number cubes • 3 pencils that vary in length • 3 pieces of paper that vary in size • 3 straws • 6 dominoes

Grade HS	Common Materials Used to Administer Testlets
	<ul style="list-style-type: none">• 6 erasers• 6 napkins• 6 pens• 7 checkers• 7 cotton balls• 7 keys• 7 plastic spoons• 8 envelopes• 9 coins

Grade HS	Common Materials Used to Administer Testlets for Students Who Are Blind or Have Visual Impairments
	<ul style="list-style-type: none"> • 1 acute angle • 1 circular object • 1 cone • 1 cube • 1 cylinder • 1 cylindrical object • 1 ellipse • 1 isosceles triangle • 1 large circle • 1 line • 1 medium right triangle • 1 number cube • 1 obtuse angle • 1 point • 1 quarter • 1 ray • 1 rectangle divided into triangular halves • 1 rectangular object • 1 rhombus • 1 right angle • 1 set of 20 objects • 1 set of parallel lines • 1 set of perpendicular lines • 1 sixteen-inch length of yarn • 1 small acute scalene triangle • 1 tactile coordinate grid • 1 tactile material to create groups • 1 tactile spinner • 10 ones • 15 connecting cubes • 2 congruent parallelograms • 2 four-inch craft sticks • 2 large congruent acute scalene triangles • 2 large congruent equilateral triangles • 2 large congruent rectangles • 2 large congruent right triangles • 2 large congruent squares • 2 medium congruent equilateral triangles • 2 sets of 4 objects • 2 sets of non-perpendicular intersecting lines • 2 small congruent circles • 2 small congruent equilateral triangles

Grade HS	Common Materials Used to Administer Testlets for Students Who Are Blind or Have Visual Impairments
	<ul style="list-style-type: none"> • 2 small congruent right triangles • 2 small rectangles • 2 small squares • 2 tactile line plots • 3 addition signs • 3 arrows • 3 congruent right triangles • 3 division signs • 3 multiplication signs • 3 similar objects • 3 subtraction signs • 3 tactile coordinate planes • 3 tactile line graphs • 3 tactile picture graphs • 3 tactile pie charts • 4 playing cards • 4 six-inch craft sticks • 4 tactile function tables • 5 tactile bar graphs • 6 congruent trapezoids • 6 line segments • 6 tactile number lines • 7 tactile function graphs • 8 tens • tactile letters • tactile numbers