Inside Space Sort

Sort ideas that measure flat space from ideas that do not.

NY-3.MD.5 "Recognize area as an attribute of plane figures and understand concepts of area measurement."

NAME _____ DATE _____

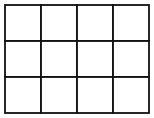
MEASURES AREA	DOES NOT MEASURE AREA
An area measure tells how many square units cover a flat region. It describes the space within a closed shape. A stamp covers 6 square centimeters.	A measure of length, weight, or number of sides is not area. It does not tell how many square units cover a region. A path around a pond is 30 yards long.

1 SORT

8 items

Circle AREA or NOT AREA for each item. For the tiled rectangle, also count the square units. In Part 2, choose two items and explain what is measured.

1. The square units needed to cover a notebook cover. AREA NOT AREA

2. 

The number of unit squares that cover this whole rectangle.

AREA NOT AREA

3. The distance around a playground. AREA NOT AREA

4. The square inches that cover a photo. AREA NOT AREA

5. The length of a ribbon. AREA NOT AREA

6. The number of sides on a hexagon. AREA NOT AREA

7. The amount of surface a leaf-shaped cutout covers. AREA NOT AREA

8. The weight of a backpack. AREA NOT AREA

2 PROVE IT

Explain your thinking

Pick two items from Part 1. For each one, tell how you knew where it belonged.

ITEM # _____ **HOW I KNEW** _____

ITEM # _____ **HOW I KNEW** _____

3 MAKE YOUR OWN

One of each

Write one new AREA example and one new NOT AREA example.

AREA _____

NOT AREA _____

CHALLENGE

A rectangle is covered by 4 rows of 6 square tiles. Is 24 square tiles an AREA or NOT AREA measurement? Explain why.

ANSWER KEY

Inside Space Sort

GRADE 3 · NY-3.MD.5

PART 1 · SORT

#	ITEM	CATEGORY	WHY
1	The square units needed to cover a notebook cover.	**AREA**	This tells how many square units cover a flat surface.
2	The number of unit squares that cover this whole rectangle. (array)	**AREA**	AREA: 12 unit squares cover the rectangle without gaps or overlaps.
3	The distance around a playground.	**NOT AREA**	This is a distance around an edge, not a measure of inside space.
4	The square inches that cover a photo.	**AREA**	Square inches covering a flat surface measure area.
5	The length of a ribbon.	**NOT AREA**	Length measures how long something is.
6	The number of sides on a hexagon.	**NOT AREA**	Counting sides does not measure covered space.
7	The amount of surface a leaf-shaped cutout covers.	**AREA**	This describes how much flat surface the cutout covers.
8	The weight of a backpack.	**NOT AREA**	Weight does not measure a flat surface.

PART 2 · PROVE IT

Accept any explanation that names the deciding feature from the rule box for the chosen item.

PART 3 · MAKE YOUR OWN (SAMPLE ANSWERS)

- **AREA**: The square feet needed to cover a patio.
- **NOT AREA**: The 18 inches around a picture frame.

Challenge: AREA. Four rows of 6 tiles cover the inside of the rectangle, so the area is 24 square tiles.

For Part 2, accept explanations that identify square units or covering space for AREA. For NOT AREA, students may identify length, distance around, weight, or a count of sides. For item 2, require AREA and a count of 12 square units; distinguish counting covered squares from distance around the edge.