Course Information	Originating Course Information
Course: General Science I 2020	Course: General Science I
Unit: 2. PERCEIVING THINGS	Unit: 2. PERCEIVING THINGS
Assignment: 3. Measurement: Area	Assignment: 3. Measurement: Area

MEASUREMENT: AREA

While the meter, centimeter, and kilometer serve as units of distance, the square centimeter (cm²), the *square meter* (m²), and the *square kilometer* (km²) are used for area measurements.

Here are your goals for this lesson:

- **Identify the standard unit of area**
- **Calculate area using correct standard metric units and the formula: area = length x width.**

Help

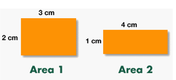
VOCABULARY

square kilometer	Unit of measure of an area equal to 1 km by 1 km.
square meter	Unit of measure of an area equal to 1 m by 1 m.

Vocab Arcade

The *square centimeter* is the standard unit of *area*. When you measure the area of an object, you are making a comparison between the surface being measured and the unit of measurement being used. To find the area of rectangles, you multiply the length of the base times the length of the height, or length × width.

Calculating Areas. The unit for measuring the surface of small areas is the square centimeter (cm²). Area can be computed by multiplying the number of units of length on one side (horizontal) by the number of units of length on the other side (vertical). One unit of length is called *length*, and the other unit of length is called *width*. Area = length times width. Using this formula, **(A = L · W)**, find the area for the following shapes.



Click here for area conversion chart.

Question #1 TextMultipleChoice
Show Answer
[ ]: **Unit of measure of an area equal to 1 m by 1 m.**

Question #2 TextMultipleChoice
Show Answer
[ ]: **Unit of measure of an area equal to 1 km by 1 km.**

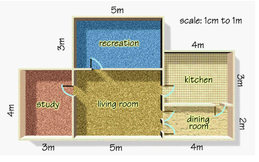
Question #3 TextMultipleChoice
Show Answer
Jane's brick is [ ] square units.

Question #4 TextMultipleChoice
Show Answer
John's block is [ ] square units.

Question #5 TextMultipleChoice
Show Answer
Area 1 is [ ] cm²

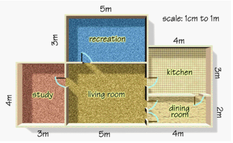
Question #6 TextMultipleChoice
Show Answer
Area 2 is [ ] cm²

Sometimes you may want to know the area of a room in your house.



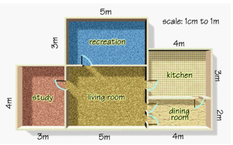
A square meter (m²) is used for measuring the area of larger surfaces. Figure the areas for the following rooms in this house plan.

Question #7 FillInBlank
Show Answer
Determine the area based on the house plan.



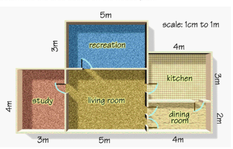
Kitchen area: [ ] m²

Question #8 FillInBlank
Show Answer
Determine the area based on the house plan.



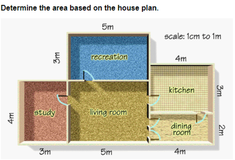
Living room area: [ ] m²

Question #9 FillInBlank
Show Answer
Determine the area based on the house plan.



Recreation room area: [ ] m²

Question #10 FillInBlank
Show Answer
Determine the area based on the house plan.



Study area: [ ] m²