



## 2020 VIRTUAL ARCHITECTURE CAMP

### Measuring Space Worksheet

People interact with space based on their own physical dimensions, capabilities, and limitations. A tall person with large feet can walk twice as far as a short person with small feet, but the distance is still the same. By knowing our individual measurements, we can better understand how we relate to the spaces around us and eventually design better spaces for others. We all experience space influenced by our individual metrics. **Together, we will use our human dimensions to measure and draw the rooms we are sitting in right now!**

### 1 MEASURABLES

Your task is to measure your human dimensions. How big are your feet? How wide are your hands? Let's find out!

**Using your ruler, measure the length of your feet and hand (in inches).**




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### 2 WALK THE ROOM

Now that you know your own measurements, let's measure the space around us!

**Using your human dimensions, determine the length and width of the room in footsteps.**

LENGTH (Y): \_\_\_\_\_

WIDTH (X): \_\_\_\_\_

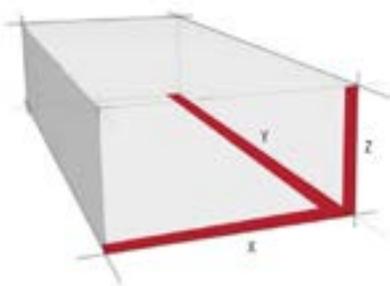
### 3 SCALE IT UP!

Architects use the English system in the United States, based on measurements of feet and inches.

**Finally, convert your human dimensions to real measurements!**

|           | FOOTSTEPS | LENGTH OF FOOT<br>(in inches) | DISTANCE* |
|-----------|-----------|-------------------------------|-----------|
| <b>L=</b> | _____     | x _____                       | = _____   |
| <b>W=</b> | _____     | x _____                       | = _____   |

*\*Remember to divide your answer by 12 to convert inches into feet!*





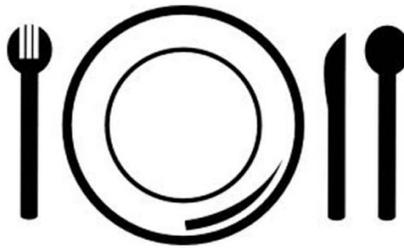
## 2020 VIRTUAL ARCHITECTURE CAMP

### Design Worksheet

Architects draw their inspiration from many ideas and concepts to determine the final design of spaces and buildings. Today, we will pull ideas from our favorite food to design a small cafe based on the size of our living room spaces! Use your imagination to create a space that is inviting, functional, and fun!

#### 1 INSPIRATION

Write down your favorite food. It can be a dish from breakfast, lunch, or dinner.



#### 2 INGREDIENTS

What are the main ingredients?

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#### 3 GATHER DATA

Where is your dish from?  
American Southern, Italian, Mexican, etc.

What colors are in your dish?  
Red tomatoes, green lettuce, etc.

Is your dish 'fancy', 'casual', or 'homemade'?

What else is important about your dish?

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#### 4 WHATS INCLUDED

When architects plan out space, we list all of the items we need in a **program**. It's our job to fit everything in the space according to their size. **Locate these items in your cafe.** What else can you include in your cafe?

*Tip: Sometimes, the client only requests a certain amount of **area** instead of exact dimensions. This means you can make a room however long and wide you want, as long as it meets the area requirements.*

|                   |                    |
|-------------------|--------------------|
| Entrance          | 3' Door            |
| Cashier Counter   | 2' x 4'            |
| Display Shelves   | Three - 2' x 6'    |
| Cold Storage Room | 24 ft <sup>2</sup> |
| Table + 2 Chairs  | 4' Circle          |
| Kitchen Counter   | 2' x 8'            |

