

DESIGNER
WORKBOOK

CITY X PROJECT

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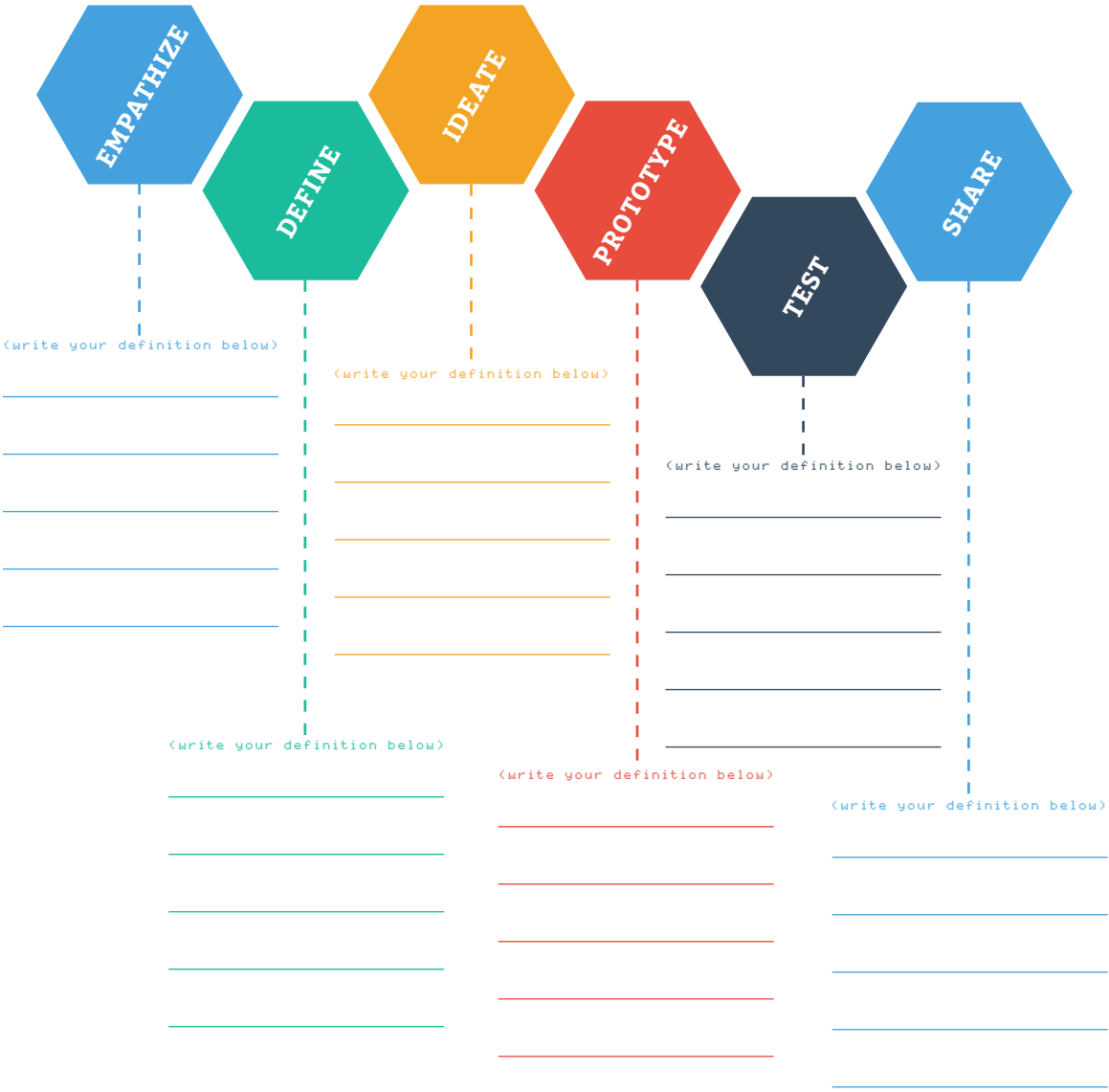
(write your name above)

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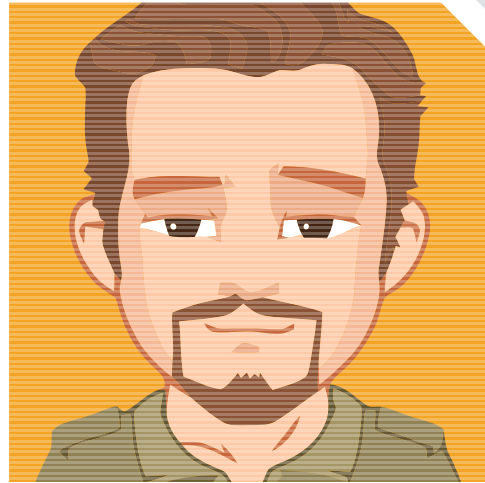
The Design Process

How Ideas Become Reality

To design the best inventions possible, you'll use something called The Design Process. This process will help you understand a challenge, think of solutions, and then create a final product that is effective and ready to be shared with the world! This is the same process used by real designers, inventors, and engineers around the world!



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  <initializing_com_pad
    /1...
    /2...
    /3...
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  <alt>
  <!-- CONNECTION SUCCESS -->
  <message>
    <from: city_x-mayor>
    <to: all available designers>
    <status: URGENT>
    <!-- BEGIN MESSAGE TRANSCRIPT -->
    <mode="magnify">
```



Hello Citizens of Earth,

Our journey from the planet couldn't have gone any better. Though we had a few minor problems, we successfully landed on our new homeworld as of late last week. Besides the extra moon, some of our citizens have even mentioned how much it reminds them of Earth.

Unfortunately, now that we are here we realize just how unprepared we were for this great change. While our people have started the settlement process, we are becoming aware that we simply don't have the time to start adjusting to this new life all on our own.

We are turning to the people of Earth to help us design our first city, City X. Our citizens have begun identifying their problems and we shall make their transmissions available to all the citizens of Earth.

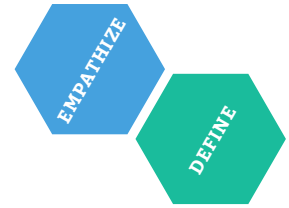
Please, take the time to get to know them so you can help them all on our new and sometimes dangerous planet.

Our future and the future of mankind is in your hands. Thank you and good luck!

Sincerely,
The Mayor

```
</message>
</alt>
</close_transmission>
```

What is the problem?



_____ is feeling

(write your citizen's name above)

happy sad frustrated hopeful confused
hurt scared curious calm angry tired
discouraged lonely surprised tense

(circle your citizen's feelings above)

and needs me to design a solution to a social
problem about _____ .

transportation environment communication
food health energy education safety

(circle your citizen's social issue above)

Ideate



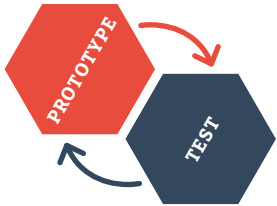
Brainstorming Guidelines

- *Don't judge.*
- *Build on the ideas of others.*
- *Go for quantity.*
- *Encourage wild ideas.*

City X Guidelines

- *No ideas from adults.*
 - *No inventions that already exist.*
 - *No robots.*
-

Iteration



Feedback:



Good Things



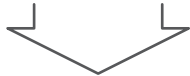
Questions



Things to Change

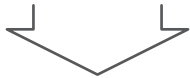
v1.0







v2.0

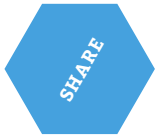


v3.0

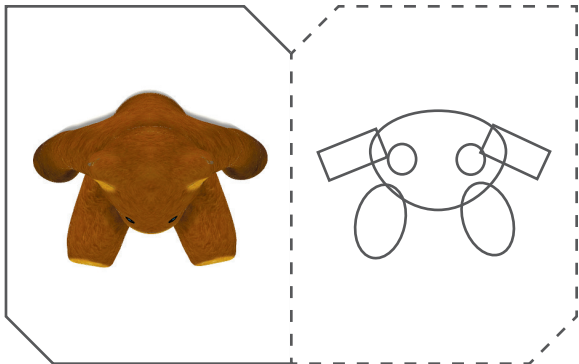
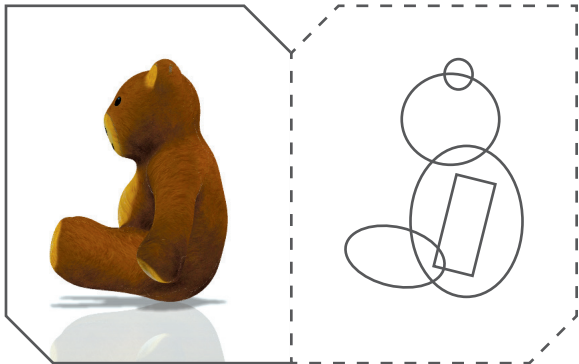
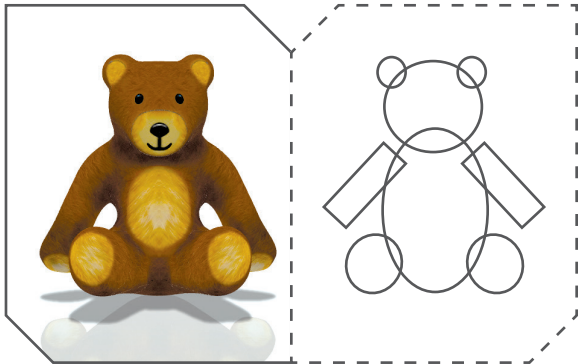
(write the name of your prototype above)

(describe your invention above)

Blueprint



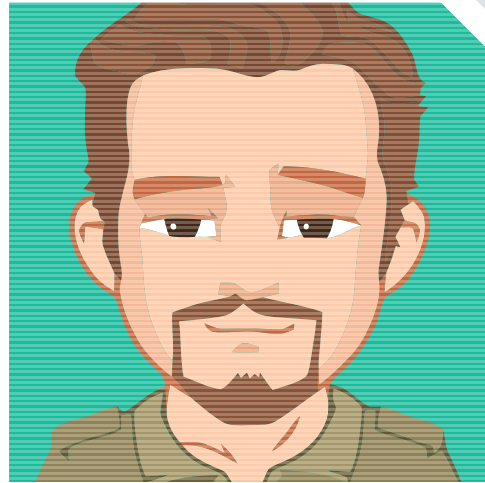
Sketch the front, side, and top views of your prototype below.



```

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    /2...
    /3...
    status="initialized">
  <content_type="video_stream" alt="text">
  <!-- WARNING: video_signal="frozen" -->
  <alt>
  <!-- CONNECTION SUCCESS -->
  <message>
    <from: city_x-mayor>
    <to: all available designers>
    <status: normal>
    <!-- BEGIN MESSAGE TRANSCRIPT -->
    <mode="magnify">

```



Dear Designer,

We received your invention and can't wait to begin printing and using them here in City X. Thank you so much for your help!

You did such a good job, and we hope you'll continue on the path to becoming a talented inventor. You can keep playing, making and designing with the following free tools at home.

Thanks again,
The Mayor

```

</message>
</alt>
</close transmission>

```

You did it! Now keep learning with these resources.

Tinkercad.com

3D modeling using basic shapes

Cubify.com

Create jewelry and toys to print on the Cube 3D printer

Leopoly.com

Sculpt a model using virtual clay

123Dapp.com

123D Design:

Continue modeling on your iPads or online

123D Make:

Make 3D models out of cardboard and paper

123D Catch:

Create 3D models of real objects using camera or smartphone

Shapeways.com

Explore and download 3D models of almost anything you can think of, created by other great inventors and designers

CityXProject.com

Follow us online so you can see the other inventions that have been made by designers like you from all around the world!