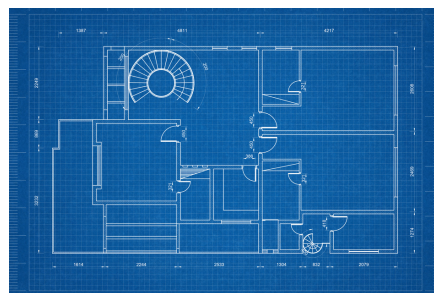


Name: _____

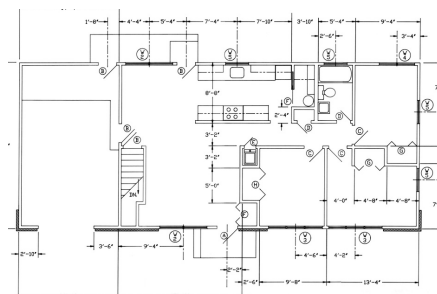
Blueprints and Models

A blueprint is a technical drawing that shows the plan and design of a building.

Blueprints were first invented in 1842 when John Hersche created the cyanotype process. Before technology, original drawings had to be traced by hand in order to obtain a copy. The invention of the cyanotype process allowed people to easily and quickly make copies of drawings. The chemicals used in the process turned the prints blue. Look at some examples below!



Blueprints are still being used today. They look different than the original blueprints and many people now refer to them as plans or drawings. Because technology allows people to create and copy drawings extremely quickly with very little effort, the cyanotype process is no longer the go-to method for creating blueprints. Architects can now print their drawings directly from computers or use copiers to make quick copies. Since the cyanotype process is no longer used the drawings are no longer blue. Look at some examples below!



A model is a 3-D smaller version of what a structure will look like. Models are used to help people see a visual of what they structure will look like when completed. View examples of some architecture models below.



Name: _____

Creating a Floating Home

Step 1: Create Your Blueprint

Sketch a blueprint of your floating home. Read the features that must be included in your design below. Then, draw your blueprint in the box at the bottom of the page. Be sure to label each part of your blueprint so that it is clear to others.

Features That Must Be Included:

1. A way for the home to float on water
2. Solar panels on the roof
 - Solar panels turn energy from the sun and turn it into electricity
3. An area where research materials such as microscopes, computers, and lab notebooks can be stored
4. An area for sleeping and eating
5. At least two other features that you believe would be helpful on a floating home

Sketch Your Blueprint Here:



Step 2: Create Your Model

Use your blueprint to build a model of your floating home. Choose materials that are waterproof, as you will be testing your home to see if it can actually float!

Name: _____

Creating a Floating Home

Step 3: Evaluate a Blueprint and Model

Answer the following questions about the home you are evaluating.

1. Is the home able to float in a bin of water? (Place model in a bin of water to test) YES NO

2. Are there solar panels on the room? YES NO

3. Is there storage space for research materials? YES NO

4. Is there an area for sleeping and eating? YES NO

5. Are there any safety features included in the design? YES NO

6. What feedback would you provide to the architect on the blueprint or model they have designed?

7. Are there changes that you would suggest that you believe could make the home more eco-friendly or functional to live in.