

All Buildings

- Your model must show doors/windows as indented spaces on the 3D model. See The Teacher's example.
- Your model must fit within the size requirement for the building you choose.
- Look for ways to add creative design elements to your model. We don't want plain square buildings in our town. We want unique designs!
- Look for ways to make your building identifiable. How will we know that your building is a hospital, school, etc.?
- Take your time and make your building look good! Create something you can be proud of.

1: Elementary School

- Size limit: 5 inches x 4 inches
- Address: 365 Tech Ed Road
- Design Notes:
 - This building should have a large number of windows and multiple doors.
 - The front entrance is the main focus of this building. What can you do to make this area unique?
 - Think about how classrooms, cafeteria, gym, and offices would be laid out inside the building. How would that impact the structure on the outside? For example if there is a gym in your school, that part of the building would probably be taller than the rest.
 - Should your school be 1 story, 2, or 3?
 - How could you design this school to improve security and make it a safe area for everyone?

2: Middle School

- Size limit: 5 inches x 4 inches
- Address: 116 Maker Avenue
- Design Notes:
 - This building should have a large number of windows and multiple doors.
 - The front entrance is the main focus of this building. What can you do to make this area unique?
 - Think about how classrooms, cafeteria, gym, and offices would be laid out inside the building. How would that impact the structure on the outside? For example if there is a gym in your school, that part of the building would probably be taller than the rest.
 - Should your school be 1 story, 2, or 3?
 - How could you design this school to improve security and make it a safe area for everyone?

3: High School

- Size limit: 5 inches x 5 inches
- Address: 300 Tech Ed Road

- Design Notes:
 - This building should have a large number of windows and multiple doors.
 - The front entrance is the main focus of this building. What can you do to make this area unique?
 - Think about how classrooms, cafeteria, gym, and offices would be laid out inside the building. How would that impact the structure on the outside? For example if there is a gym in your school, that part of the building would probably be taller than the rest.
 - Should your school be 1 story, 2, or 3?
 - How could you design this school to improve security and make it a safe area for everyone?

4: High School Football Stadium

- Size limit: 5 inches x 3 inches
- Address: 300B Tech Ed Road
- Design Notes:
 - This structure needs to have stands on at least both sides of the football field.
 - There should be a concession stand attached to the stands somewhere.
 - Where will the locker rooms be located?
 - Can you incorporate the school's mascot the Makerville "Engineers" into your design somehow?

5: Grocery Store

- Size limit: 4 inches x 2 inches
- Address: 529 Design Road
- Design Notes:
 - This buildings needs a large front entrance to accommodate groups of customers.
 - The store name should be visible.
 - Many grocery stores have large windows at the front.
 - The building should include an area in the back or to the side for delivery trucks.

6: Houses

- Size limit: 1.5 inches x 1.5 inches
- Address:
 - Houses can be built at these locations:
 - 195 Engineer Road
 - 95, 81 Extrusion Road
 - 205, 213 Design Road
 - 192, 222, 264 Maker Avenue
 - 670 Design Road
- Only 2 students can design houses until all other building are taken
- Design Notes:
 - There will be multiple homes in the town.
 - You have a lot of design freedom here as there are many styles of houses.
 - Make sure your house has enough windows and doors so that fire escape is easy for the occupants.

7: Apartment building

- Size limit: 2 inches x 3 inches
- Address: 373 Design Road
- Design Notes:
 - The apartment building will be home to a large number of people.
 - Each apartment should have at least 2 windows.
 - How many stories will your apartment building be? (no more than 10, we don't want a skyscraper in this town)
 - How can you make this building unique?

8: Fire/Ambulance Station

- Size limit: 2 inches x 3 inches
- Address: 204 Spool Road
- Design Notes:
 - This building should be large enough to house 3 fire trucks and 2 ambulances.
 - There should be 5 large garage doors for the emergency vehicles.
 - Many fire stations are also used for town events.

9: Police Station

- Size limit: 2 inches x 2 inches
- Address: 212 PLA Drive
- Design Notes:
 - You have a lot of design freedom with this building.
 - “Police Station” should be visible on the building.
 - Must have at least 2 doors.

10: Post office

- Size limit: 1.5 inches x 1.5 inches
- Address: 186 Additive Avenue
- Design Notes:
 - You have a lot of design freedom with this building.
 - There should be an area in the back for mail trucks to load and unload.
 - The main entrance should be unique and it should say “post office”

11: Restaurant

- Size limit: 1.5 inches x 1.5 inches
- Address:
 - Restaurants can be built at these locations:
 - 100 Shell Street
 - 102, 144, 252 Additive Avenue
 - 105 Infill Way
- Only 2 students can design restaurants until all other building are taken.
- Design Notes:
 - You have a lot of design freedom with this building.
 - What kind of restaurant will you make?
 - The style of the structure should reflect the type of restaurant.

12: Fitness Center/Gym

- Size limit: 2 inches x 3 inches
- Address: 260 Shell Street
- Design Notes:
 - The town would like a large fitness center.
 - The front entrance of the building should be unique and it should be identifiable as a gym.
 - The name of the gym should be visible.

13: Hospital

- Size limit: 4 inches x 3 inches
- Address: 240 Engineer Road
- Design Notes:
 - The hospital should have an emergency entrance and a regular entrance.
 - There should be a helicopter landing area on top of the building.
 - Hospitals usually have a lot of windows.

14: Library

- Size limit: 2.5 inches x 2 inches
- Address: 233 Tech Ed Road
- Design Notes:
 - The library can either be a modern or classic design. Which do you prefer?
 - The main entrance should be the focus of the building.

15: Gas station

- Size limit: 2 inches x 2 inches
- Address: 91 Additive Avenue
- Design Notes:
 - The gas station has 2 parts, the gas pumps and the store.
 - The gas pumps must be covered with a roof.
 - Make sure you leave enough room between the store and pumps for cars to drive through.

16: Bank

- Size limit: 1.5 inches x 1.5 inches
- Address: 210 Additive Avenue
- Design Notes:
 - The bank should have an entrance at the front that is the focus of the design and an entrance in the back for trucks to deliver and pick up money.
 - This can be either a modern or classic design.

17: Movie theater

- Size limit: 2 inches x 3 inches
- Address: 113 Engineer Road
- Design Notes:
 - The movie theater will be very popular in town. It should have a large front entrance.
 - It should be easily identifiable as the movie theater.

18: Large scale store

- Size limit: 4 inches x 2 inches
- Address: 601 Design Road
- Design Notes:
 - This store will be a large store where you can buy a little of everything. Similar to a walmart or target.
 - It should have a large front entrance.
 - There should be an area for deliveries in the back of the store.

19: Parking Garage

- Size limit: 3 inches x 3 inches
- Address: 120 Engineer Road
- Design Notes:
 - This is a challenging building.
 - The parking garage should hold a large number of cars.
 - The garage should have levels that connect so cars can drive up and down.
 - The garage should have an entrance/exit for the cars.

20: Multipurpose sports stadium

- Size limit: 4.5 inches x 3 inches
- Address: 344 Design Road
- Design Notes:
 - The town little leagues and other sports team will play here.
 - Should have stands and a concession stand.
 - It should be designed for multiple sports, not just football or baseball.

21: Office building

- Size limit: 2 inches x 3 inches
- Address: 92 Shell Street
- Design Notes:
 - This building should hold enough offices for 5-10 companies.
 - Should have a large number of windows.
 - Should be 1 main entrance to the building.
 - How many stories will it be?

22: Factory

- Size limit: 3.5 inches x 3.5 inches
- Address: 107 Shell Street
- Design Notes:
 - This building design will depend on the type of factory you choose.
 - It should have large doors and an area for deliveries and shipping.
 - Try to create a factory design that is not considered an “eyesore” in the community.

23: Power plant

- Size limit: 3.5 inches x 3.5 inches
- Address: 155 Shell Street

- Design Notes:
 - This building design will depend on the type of plant you choose.
 - It should have large doors and an area for deliveries and shipping.
 - May need to have cooling towers or smoke stacks.
 - Try to create a design that is not considered an “eyesore” in the community.

24: Hotel

- Size limit: 3 inches x 3 inches
- Address: 247 Additive Avenue
- Design Notes:
 - This hotel should be an unique design that attracts tourists.
 - Should have a larger front entrance and a large number of windows.
 - The front entrance should be the main focal point.

25: Airport

- Size limit: 5 inches x 4 inches
- Address: 191 Prototype Street
- Design Notes:
 - The airport should have a main entrance.
 - It should also have multiple terminals where passengers will board the planes.
 - You can see the large parking lot and runway on either side of the airport land plot. Design with these in mind.

26: Outdoor concert venue

- Size limit: 2 inches x 3 inches
- Address: 325 Design Road
- Design Notes:
 - This should be an area where outdoor concerts, plays, etc. can be held.
 - It should have stage with some kind of roof or covering to keep the performers dry in case of rain.
 - You may want to build stands onto your venue.
 - This venue is near to the river.

27: Have another idea?

- Size limit: 1.5 inches x 1.5 inches
- Address:
 - Extra buildings can be built at these locations:
 - 205, 213, 670 Design Road
 - 265 Engineer Road
- Only the most unique ideas will be allowed to choose this option.
- Only allowed if most other buildings are selected.
- Must get approval from the teacher first.