



OVERVIEW

The Mayor of Alphabetville needs our help! Some of the letters have gone missing from City Hall, and he needs us to re-create them to display for the town Letter Party!

VOCABULARY

- ▶ edge
- ▶ face
- ▶ length
- ▶ parallel lines
- ▶ perimeter
- ▶ perpendicular lines
- ▶ 3-D figure
- ▶ 2-D figure
- ▶ vertex
- ▶ width

MATERIALS

For the class:

- ▶ 1 Large Structures Package
- ▶ 1 pair of diagonal cutting pliers

For each pair of students:

- ▶ Scissors
- ▶ Tape
- ▶ 1 cm grid paper
- ▶ Random materials that are readily available
- ▶ Alphabetville letter
- ▶ Ruler or centimeter cubes



STUDENT PROCEDURE

1. Read the letter from the Mayor of Alphabetville.
2. Watch the video shown by the teacher.
3. Give ideas of possible materials that could be used to build letters.
4. Look at examples of 3-D objects and discuss what an edge, a vertex, a face, and a base are.
5. Choose the letter that you will be re-creating.
6. Make a detailed drawing labeling the materials you will be using on your student page.
7. Share your drawing with your partner and together come up with a final drawing that you will begin to create.
8. Create your letters.
9. Complete the student page.

ACTIVITY CONNECTION

The alphabet has been around for a very long time. Over time, the shape and directions of the letters have changed.

Some countries use completely different alphabets than the one you know. China uses different characters that look nothing like the letters you built.

魂 男 父 子 孫 旭 月



Mayor Alphabet Man

Alphabetville, USA

Dear Students,

We need your help! A terrible thing has happened here at City Hall in Alphabetville. Someone has stolen some of the letters from our alphabet display just days before our Letter Party.

The Letter Party is what we are most famous for. People from near and far come to Alphabetville for this once-a-year event, and it can't be cancelled!

We have a complete investigation underway, but I'm afraid the letters won't be returned before the party. That's where you come in.

Times are tough in Alphabetville, and we don't have many resources. Can you help our city by re-creating new letters that are missing so we can display them in City Hall for our Letter Party?

We have sent you a Large Structures Package to assist you, but you can also use any other materials that you have.

The letters that we need you to replace are A, E, F, H, I, L, N, O, T, V, W, X, and Z. If you can accomplish this task and save the Letter Party, I will give you a key to the city as a token of our appreciation! Good luck, my friends!

Wishing you the best,

Mayor Alphabet Man



Student Name _____

I created the letter _____ out of _____.

Here is a detailed drawing of my letter with materials labeled.

1. My letter has _____ faces and _____ edges.
2. My letter has _____ vertices.
3. What is the length of the longest side? _____
4. What is the length of the shortest side? _____
5. What is the total perimeter? _____
6. How many parallel lines does the letter have? _____
7. How many perpendicular lines does the letter have? _____
8. What shapes are present in the letter?