Building a School

Family Directions:

The attached project is a stand-alone learning opportunity to practice skills acquired in the classroom setting. The intent is to challenge student thinking; therefore, some components may be difficult for your child. Feel free to modify and adjust for your child’s needs.

Extensions:

Even more: Write a story or make a book about your school.
Congratulations! You’ve been chosen to be a principal of your very own elementary school. This is a big responsibility, but it looks like it’s going to be fun! In order to be in charge of a school, you will need to do a few things:

**Directions:**

**Part 1 - School Specifics:**

☐ Give your school a name! Remember to make it catchy and think of a mascot for your school. (For example, Rosa Parks Elementary School - Home of the Pumas.)

You can select your school colors (such as purple and gold) and create a drawing of the mascot for your school!

- My School Name is: __________________________
- Our school mascot is: __________________________
- Our school colors are: __________________________
- Draw a picture of your school mascot:
Your school must have 6 grades with at least 120 total students enrolled in K-5:

- Kindergarten
- First Grade
- Second Grade
- Third Grade
- Fourth Grade
- Fifth Grade

How many teachers will you need? First, you need to determine how many classes you want for each grade and how many students you have for each grade. You should have one teacher for each classroom and there cannot be more than 20 students in each class.

**Kindergarten**

- How many teachers? ________
- How many students does each teacher have? ________
- How many total students are in kindergarten? ________
- How many classrooms do you need for kindergarten? ___________

Show your work:

**1st Grade**

- How many teachers? ________
- How many students does each teacher have? ________
- How many total students are in 1st Grade? ________
- How many classrooms do you need for 1st Grade? ___________

Show your work:
Name: ______________________________

2\textsuperscript{nd} Grade -

How many teachers? ________

How many students does each teacher have? ________

How many total students are in 2\textsuperscript{nd} Grade? ________

How many classrooms do you need for 2\textsuperscript{nd} Grade? __________

Show your work:

3\textsuperscript{rd} Grade -

How many teachers? ________

How many students does each teacher have? ________

How many total students are in 3\textsuperscript{rd} Grade? ________

How many classrooms do you need for 3\textsuperscript{rd} Grade? __________

Show your work:

4\textsuperscript{th} Grade -

How many teachers? ________

How many students does each teacher have? ________

How many total students are in 4\textsuperscript{th} Grade? ________

How many classrooms do you need for 4\textsuperscript{th} Grade? __________

Show your work:

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Name: ______________________________

5th Grade -  
How many teachers? ________

How many students does each teacher have? ________

How many total students are in 5th Grade? ________

How many classrooms do you need for 5th Grade? ________

Show your work:

How many total classrooms in K-5 does your school have? K - ________

1st - ________

2nd - ________

3rd - ________

4th - ________

5th - ________

Total Classrooms - ________
Part 2 - Rough Draft of School

You are now going to design your own school. Before you get started drawing your floorplan for your school you must plan and prepare! Use the rectangles below to draw a rough draft of your school. Use the data from above that you calculated about how many teachers and students are in each room as you create your floorplan.

Floor One
Part 3 - Rough Draft of School Garden

Use the diagrams below to create a rough draft of your school garden. You need to “plant” rows of flowers or trees in your garden. Look at the chart below and decide which flowers and trees you will plant in your garden. How many of each flower and tree will you plant? You need at least 30 trees and 20 flowers. Group them according to tree and make a number sentence.

<table>
<thead>
<tr>
<th>Douglas Fir</th>
<th>Apple Tree</th>
<th>Carnation</th>
<th>Tulip</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cherry Tree</td>
<td>Blue Spruce</td>
<td>Daisy</td>
<td>Poppy</td>
</tr>
<tr>
<td>Pine</td>
<td>Cedar</td>
<td>Violet</td>
<td>Rose</td>
</tr>
<tr>
<td>Juniper</td>
<td>Maple</td>
<td>Sunflower</td>
<td>Lavender</td>
</tr>
</tbody>
</table>

Create at least two options of how to arrange your flowers and trees in the flowerbeds below:

**Option #1**

<table>
<thead>
<tr>
<th>Type of flower or tree:</th>
<th>How many of each?</th>
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</thead>
<tbody>
<tr>
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</tbody>
</table>

**Option 1 total # of flowers & trees:** _________

Draw a diagram of garden option 1 using the flowers listed above:
Name: ______________________________

**Option #2**

<table>
<thead>
<tr>
<th>Type of flower or tree:</th>
<th>How many of each?</th>
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</tbody>
</table>

**Option 2 total # of flowers & trees: ________**

Draw a diagram of garden option 1 using the flowers listed above:

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Part 4 - Rough Draft of Playground/Outdoor Space.

Use the diagrams below to create a **rough draft** of your playground. What equipment will you have on your playground?

____________________________________________________

_______________________________________________________________________

How many of each playground equipment will you have on your playground? You need enough playgroup equipment for at least two grade levels (example: 2nd & 4th grade) to be on the playground at the same time. Work out the math to determine how many of each playground equipment you will need for all students to have somewhere to play at recess?

_______________________________________________________________________

Create at least two different options for your school playground:

Option A

Option B

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Part 5: Final Product – Build Your School!

Now you have finished your rough draft of your school, garden, and playground. Choose which one you will draw a final copy of for the floorplan, garden, and playground of your school. You can use a ruler or other instruments to help you draw the shapes of the floorplan. Make sure you read each of the instructions below before starting!

- On a plain piece of paper draw the floor plan of your school. Use a separate piece of paper for each floor of your school. If you want three floors for your school, then you would need three pieces of paper. Label them as first floor, second floor, or third floor.
- Don’t forget to include on your floorplan the hallways, stairs, or elevator to get from one floor to the next.
- Don’t forget rooms for “special” areas such as the library, art room, music room, computer lab and gymnasium.
- You will also need an office for the principal, a cafeteria, and any other rooms that you feel are necessary for the school. Make sure you label each room of your school.
- Plan for any outdoor spaces such as the playground.
- Use details and colors to make your floorplans look finished! Be creative!

Use this checklist to make sure you have all the rooms on your floorplan:

☐ Kindergarten rooms ☐ Gymnasium ☐ Other room or space you included
☐ 1st Grade Rooms ☐ Music Room ☐ Other room or space you included
☐ 2nd Grade Rooms ☐ Art Room
☐ 3rd Grade Rooms ☐ Library
☐ 4th Grade Rooms ☐ Computer Lab
☐ 5th Grade Rooms ☐ Hallway, Stairs, or Elevator
☐ Principal’s office ☐ Playground
☐ Cafeteria ☐ Garden
☐ Other room or space you included

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