A School Is Just Like An Animal Cell!

Timmy is on a mission to compare a school building to an animal cell. Timmy enters through the doors, which is similar to the cell membrane because they are the passage for things coming in and out of the school. He then takes a walk all over the newly waxed floor where everything is located, just like the cytoplasm. Timmy finds the administration office. This office is the main control center for the school, so it must be the nucleus. There are two important parts of the administration office: the principal’s secretary and the principal. Timmy wants to speak to the principal, but he must get past the secretary first, she must think she is a golgi apparatus. After five minutes of persuasion, she lets him into the principal’s office where very important decisions are made, just like the mitochonodria.

On Timmy’s way out of the administration office, he passes the mail room where everything is packaged and processed to leave the school, so this could also be called the endoplasmic reticulum. He then passes the cafeteria which is full of trash cans to take care of all the waste just like vacuole. Timmy now wonders where the energy for this school comes from. He buzzes past the mechanical room that houses the turbines and air conditioning units similar to a cilia in a cell. Down the same hall Timmy sees a couple storage rooms to hold all the student records, extra desks, computers, etc. He thinks back to the ribosome that do the same thing in an animal cell.

His final stop is the classrooms. There are so many and they are all connected by adjoining doors to move the students easily as the nuclear envelope does. He thinks the students must be the ribosomes since they are processing all this knowledge for their future.

On his way out Timmy sees all the buses at the bus circle that transports all the students and their lunchboxes as would ribosomes on the outside of an animal cell.

Word Bank:
-cell membrane -cytoplasm -nucleus -nuclear envelope -nucleolus -cilia
golgi apparatus -lysosome -mitochondria -vacuole -ribosomes
-endoplasmic reticulum

Questions:

1. If this was a plant cell, what could represent a cell wall?

2. If this was a plant cell, think of renewable energy source that could represent a chloroplast.

3. If this was a plant cell, would there be multiple storage rooms or one large one?

4. Across the street is a very small charter school with a few students and no office. What type of DNA structure would be at the school?
A School Is Just Like An Animal Cell!!!!!!!!!

Timmy is on a mission to compare a school building to an animal cell. Timmy enters through the doors, which is similar to the **cell membrane** because they are the passage for things coming in and out of the school. He then takes a walk all over the newly waxed floor where everything is located, just like the **cytoplasm**. Timmy finds the administration office. This office is the main control center for the school, so it must be the **nucleus**. There are two important parts of the administration office: the principal’s secretary and the principal. Timmy wants to speak to the principal, but he must get past the secretary first, she must think she is a **nuclear envelope**. After five minutes of persuasion, she lets him into the principal’s office where very important decisions are made, just like the **nucleolus**.

On Timmy’s way out of the administration office, he passes the mail room where everything is packaged and processed to leave the school, so this could also be called the **golgi apparatus**. He then passes the cafeteria which is full of trash cans to take care of all the waste just like **lysosomes**. Timmy now wonders where the energy for this school comes from. He buzzes past the mechanical room that houses the turbines and air conditioning units similar to a **mitochondria** in a cell. Down the same hall Timmy sees a couple storage rooms to hold all the student records, extra desks, computers, etc. He thinks back to the **vacuole** that do the same thing in an animal cell.

His final stop is the classrooms. There are so many and they are all connected by adjoining doors to move the students easily as the **endoplasmic reticulum** does. He thinks the students must be the **ribosomes** since they are processing all this knowledge for their future.

On his way out Timmy sees all the buses at the bus circle that transports all the students and their lunchboxes as would **cilia** on the outside of an animal cell.

Word Bank:
- cell membrane  - cytoplasm  - nucleus  - nuclear envelope  - nucleolus  - cilia  
- golgi apparatus  - lysosome  - mitochondria  - vacuole  - ribosomes  
- endoplasmic reticulum

Questions:

1. If this was a plant cell, what could represent a cell wall?  **gates**

2. If this was a plant cell, think of renewable energy source that could represent a chloroplast.  **solar energy**

3. If this was a plant cell, would there be multiple storage rooms or one large one?  **one large one**

4. Across the street is a very small charter school with a few students and no office. What type of DNA structure would be at the school?  **plasmid**