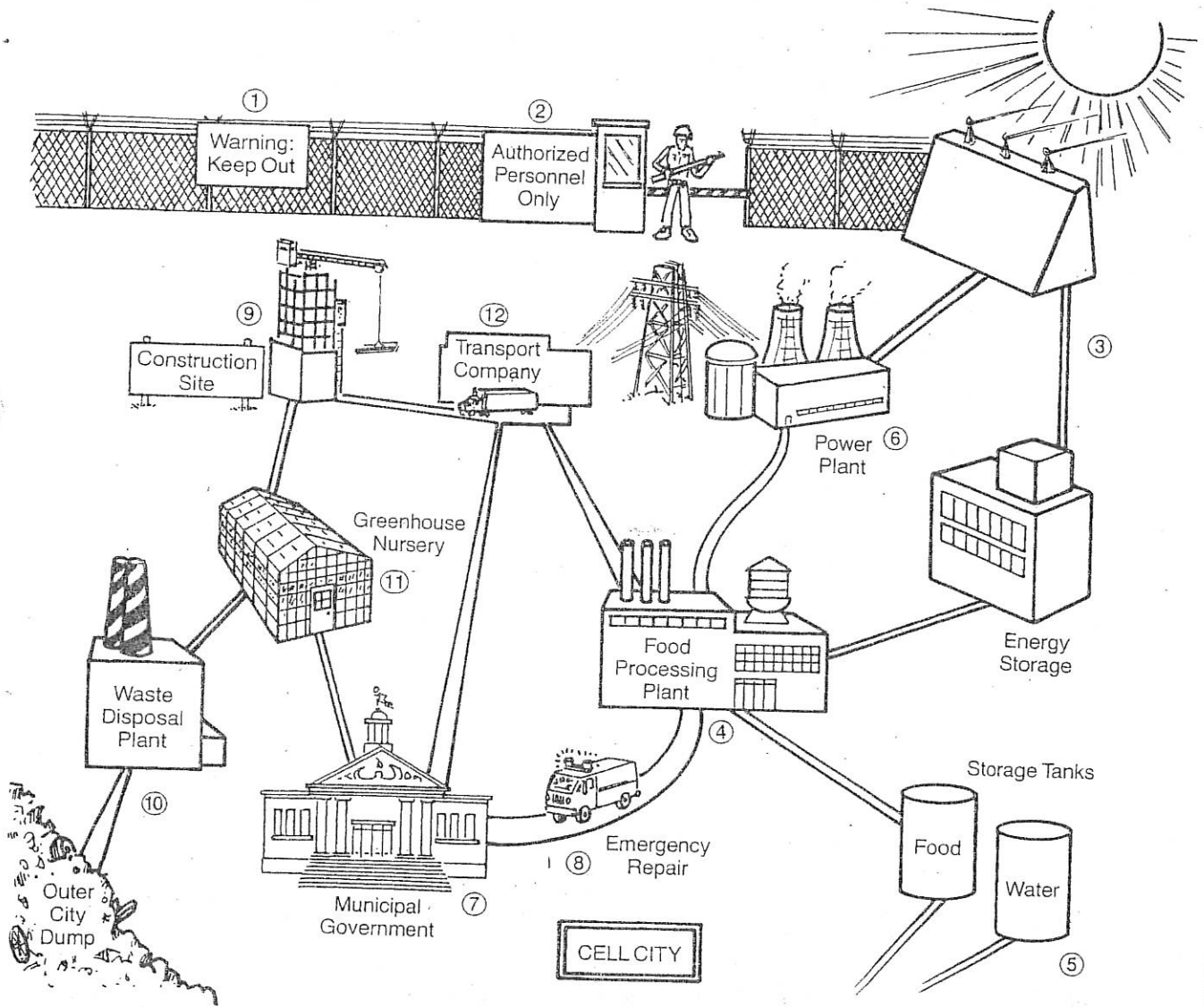


# Chapter Discovery

## Discovering Cell Function

The cartoon below shows the various functions carried out in a typical plant cell. Study the cartoon; then describe the function that you see being carried out at each number. After you have studied Chapter 2 in your textbook, look at the cartoon again and note the cell structures that carry out each function.



- \_\_\_\_\_

**A**ctivity**Can You Identify These Cell Structures?**

Read each description and then identify the cell structure. Write your answer on the line provided.

1. I'm a real "powerhouse."  
That's plain to see.  
I break down food  
To release energy.

What am I? \_\_\_\_\_

2. I'm strong and stiff  
Getting through me is tough.  
I'm found only in plants,  
But I guess that's enough.

What am I? \_\_\_\_\_

3. My name means "colored bodies,"  
And I contain DNA.  
I pass on traits to new cells  
In a systematic way.

What am I? \_\_\_\_\_

4. I'm the "brain" of the cell  
Or so they say.  
I regulate activities  
From day to day.

What am I? \_\_\_\_\_

5. Found only in plant cells,  
I'm green as can be.  
I make food for the plant  
Using the sun's energy.

What am I? \_\_\_\_\_

6. I'm a series of tubes  
Found throughout the cell.  
I transport proteins  
And other things as well.

What am I? \_\_\_\_\_

7. I'm full of holes,  
Flexible, and thin.  
I control what gets out  
As well as what comes in.

What am I? \_\_\_\_\_

8. Proteins are made here  
Even though I'm quite small.  
You can find me in the cytoplasm  
Or attached to E.R.'s wall.

What am I? \_\_\_\_\_

9. I've been called a "storage tank"  
By those with little taste.  
I'm a sac filled with water,  
Food, enzymes, or waste.

What am I? \_\_\_\_\_

10. Since I contain many enzymes,  
I can digest an injured cell;  
And can break down a large molecule  
Into a smaller one as well.

What am I? \_\_\_\_\_