**Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Cells 2**

**3 Main Parts of the Cell Label this cheek cell with the 3 main**

 **parts shown in the cartoon cell**

1.\_\_\_\_\_\_\_\_\_\_\_: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



 2.\_\_\_\_\_\_\_\_\_\_\_: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3.\_\_\_\_\_\_\_\_\_\_\_: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

|  |  |
| --- | --- |
| DNA | All the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ that tells a cell how to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | Found in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of every cell in your body |
|  | Your DNA came from your \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Gene | Small part of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  | One specific \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for the cell |
|  | There is a gene for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and a gene for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and genes that can cause \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_in your body.  |
| Chromosome | A bunch of \_\_\_\_\_\_\_\_\_\_, twisted together inside the nucleus of a cell |
|  | Humans have \_\_\_\_\_\_\_ chromosomes in every cell |
|  | Chromosomes are found in \_\_\_\_\_\_\_\_\_\_\_. |
|  | Mom passes \_\_\_\_\_\_\_\_\_\_\_\_ the chromosomes in a special cell called an \_\_\_\_\_\_\_\_\_\_\_\_\_\_.  |
|  | Dad passes half of the chromosomes in a special cell called \_\_\_\_\_\_\_\_\_\_\_\_\_\_. |



Label the picture: cell, chromosome, DNA, gene and nucleus

3

2

1

5

4

Cells must make new cells. The process of making new cells is called \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Brainstorm:** Think of 5 reasons why a cell would need to divide.

|  |
| --- |
| **Cell division is necessary for:** |
| S\_\_\_\_\_\_\_\_\_\_\_\_\_: |  |
| G\_\_\_\_\_\_\_\_\_\_\_\_\_: |  |
| R\_\_\_\_\_\_\_\_\_\_\_\_\_: |  |
| R\_\_\_\_\_\_\_\_\_\_\_\_\_: |  |
| R\_\_\_\_\_\_\_\_\_\_\_\_\_: | Unicellular: |
| Multicellular: |

In order for a cell to divide into a new cell that will function properly, the chromosomes (DNA) of the cell must be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The copying of the chromosomes (DNA) is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.



 Picture A Picture B