**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ On-Level Biology**

**Class Period: \_\_\_\_\_\_\_ Ms. Wagoner**

UNIT 1: CHARACTERISTICS OF LIFE NOTES

*Essential Question:*

**Warm-Ups**

|  |  |  |  |
| --- | --- | --- | --- |
| *Date* | *Answer* | *Date* | *Answer* |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Lab Safety**

-What lab safety rules are being violated in the cartoon below?



**Characteristics of Life**

![C:\Users\eharvey\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\F3QXSAQ2\prokaryote_color_key[1].png]()*There are 7 characteristics that all living organisms share.*

-Characteristic #1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 🡪All living things are made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

 🡪Two types of cells:

 -\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = no \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ surrounding DNA.

 Examples:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

![C:\Users\eharvey\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\F3QXSAQ2\cell_plant02_sm[1].jpg]() -\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ surrounding \_\_\_\_\_.

 Examples: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-Characteristic #2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

🡪Organisms have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ over \_\_\_\_\_\_\_\_ (evolved) by \_\_\_\_\_\_\_\_\_\_\_\_\_ to their environments.

🡪This makes them \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ to live in their environment.

![C:\Users\eharvey\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\CCCYGQH2\DNA_wpclipart_bases_labeled[1].png]()

-Characteristic #3: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 🡪 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organisms pass \_\_\_\_\_\_\_\_\_\_\_ from parent to \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

 🡪What is responsible for your traits? \_\_\_\_\_\_\_\_

 🡪DNA is also known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-Characteristic #4: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 🡪Living organisms must \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to continue their \_\_\_\_\_\_\_\_\_\_\_\_\_.

 🡪Reproduction can be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (bacteria) or sexual (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_).

-Characteristic #5: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 🡪Living \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ maintain a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ environment.

 🡪Example: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

-Characteristic #6: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

🡪There are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ between organisms and they \_\_\_\_\_\_\_\_\_\_\_\_\_ to changes to their environment.

🡪Examples: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

![C:\Users\eharvey\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\ND4L4BXS\European_honey_bee_extracts_nectar[1].jpg]()![C:\Users\eharvey\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\F3QXSAQ2\27244367_-_Sheenin[1].jpg]()

-Characteristic #7: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

![C:\Users\eharvey\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\MYH9VGWM\mitochondria2[1].jpg]()![C:\Users\eharvey\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\ND4L4BXS\photosynth[1].gif]()🡪Living organisms need to be able to \_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_, and use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.