|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Chapter 1  1.1-1.2 | Characteristics of Life  P. 6-19 | | | |
| **Vocabulary & Concepts** | | | | |
| unicellular | | multicellular | bacteria | virus |
| Cell Theory | |  |  |  |

|  |
| --- |
| What makes something alive? |

In groups of 4, complete the activity: “The Martian and the Car.” Use the information gathered and class

discussion to complete the table below.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Brainstorm:** What do all living things have in common? What characteristics do all living things have in common? What do all living things do?   |  |  | | --- | --- | | Image result for human Image result for mushroom  Image result for grass  Image result for plantImage result for hippo  Image result for fox https://i.ytimg.com/vi/EghIe1k14S8/maxresdefault.jpg |  | |  | |  | |  | |  | |  | |  | |

|  |  |  |
| --- | --- | --- |
| **Consider This:** With a partner, read the following about a bacteria and virus, then decide whether they are alive or not.   |  |  | | --- | --- | | **Streptococcus Bacteria**  *The streptococcus bacteria is a single spherical cell, but can grow into long chains, like a microscopic pearl necklace. To grow, the bacteria splits itself in half and becomes two! If it ever finds itself in your throat, you develop strep throat. There, it absorbs nutrients through its thin cell membrane and releases wastes.*    Is streptococcus alive? Why or why not? | **Human Immunodeficiency Virus (HIV)**  *The HIV virus is a round little capsule made of protein. It resides inside the white blood cells of other animals, but doesn’t use them for nutrition. In fact, it doesn’t eat at all. When conditions are right, the HIV virus will use the body parts inside the white blood cell host to make a copy of itself. It then busts out of the white blood cell, effectively killing it, to go on to infect others.*  *C:\Users\ying.gu\Desktop\1qV2S2mR45mqB2fQ1Aw48ZYH.jpeg*  Is HIV alive? Why or why not? | |

\*\*\*Complete pages 3-9 in your BC Science 8 Connections textbook

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| Where do living things come from? |

**BRAINSTORM:** Does mold just appear on bread? How about maggots on rotting meat? How do they get there?

The Cell Theory

The Cell Theory summarizes what we know about life. Watch the video “Cell Theory,” and fill out the table below.

|  |  |
| --- | --- |
| **Theory** | **Example** |
|  | Unicellular (singled cell) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Multicellular \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
|  |  |
|  |  |

**AND NOW, TIME FOR A VIRUS DEBATE…**

Your position: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Partner’s name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_