**Brainstorm for the Immune Cartoon**

**Element/Story Line:**

**Set the Scene**

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| * Where is it? * When is it? * Who is involved? |
| **Non-Specific Defense**   * What is it? ***NON Specific***   What does Non-Specific Mean *(Science)*?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   * How do they get in?   **First Line of Defense**   |  |  | | --- | --- | | **1st Element: *SKIN*** | **2nd Element: *Snot*** | | **Real Defense:**  *Skin: Armor (keep out with layer and dry to kill)* | **Real Defense:**  *Snot: Quick sand, get stuck* | | **What you will use to represent this:** | **What you will use to represent this:** | | **How will you get past it?** | **How will you get past it?** |   **Second Line of Defense**   |  | | --- | | **1st Element: *Inflammation (Fever)*** | | **Real Defense:**  *Boil the bad guy* | | **What you will use to represent this:** | | **How will you get past it?** | | |
| **Specific Defense**  **Element/Story Line:**   * What is it? ***Immune Response***   Explain the science of this: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_   * How do they get past it? | |

**Key Players**

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| **B-Cells**   * + Main Role: ***Produce antibodies – Make the substance the recognizes the attacker***  |  |  | | --- | --- | | **Plasma B-Cells** | **Memory B-Cells** | | * Main Role *(Science)*: * Character title: | * Main Role *(Science)*: * Character title: | | **How will you get past it?** | **How will you get past it?** | |
| **Phagocyte**   |  |  | | --- | --- | | **Macrophage** | **Neutrophils** | | * Main Role:   Eat the bad guys handcuffed together, wear the bad guys face to train other cells to recognize the bad guys   * Character title: | * Main Role:   *Bleach things to death*   * Character title: | | **How will you get past it?** | **How will you get past it?** | |

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| **T-Cells**  **Key Players**   * + Main Role: ***Kill the bad guys***  |  |  |  | | --- | --- | --- | | **Helper T** | **Killer T** | **Suppressor T** | | **Main Role:**  *Call For help using chemicals*  **Character title:** | **Main Role:**  *Stabs bad guys*  **Character title:** | **Main Role:**  *Turn off the immune response once the infection is over*  **Character title:** | | **How will you get past it?** | **How will you get past it?** | **How will you get past it?** | |