**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**

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| --- | --- |
| **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**

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| **1st Element: *Inflammation (Fever)*** |
| **Real Defense:***Boil the bad guy* |
| **What you will use to represent this:**  |
| **How will you get past it?**  |

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| **Specific Defense** **Element/Story Line:** * What is it? ***Immune Response***

Explain the science of this: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* How do they get past it?

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**Key Players**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **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?**  |

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| **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?**  |

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