

MISSION BRIEFING Mission Log

Teacher Version

Teacher Directions: Ask students to fill in the clues in the answer column as they proceed through the mission.

| Question | Answer |
|---|--|
| 1. In the game <i>Vectorama</i> , record two of the matches you make and list the disease the vector transmits. | 1. deer tick/ lyme disease 2. body louse/typhus (or tsetse fly/sleeping sickness, Anopheles mosquito/malaria, rat flea/plague, Culex mosquito/West Nile virus) |
| 2. How many people die each year from malaria? | over a million |
| 3. Match the achievement to the scientists on the right: a. Discovered that a mosquito carried a parasite that caused disease b. Discovered that red blood cells had a one-celled organism living in them c. His experiments proved that Anopheles mosquitoes can carry the malaria parasite | <u>b.</u> Laveran <u>a.</u> Manson <u>c.</u> Ross |
| 4. What is unique about mosquitoes that bite? | They are adult females only. |
| 5. In <i>Plasmodia Invaders</i> , the malaria parasite invades the liver and then destroys red blood cells. If too many red blood cells are destroyed, the patient can get _____. | anemia |
| 6. In <i>Immune System Defenders</i> , B-cells make special chemicals called _____ that recognize a _____. | antibodies specific invader |
| 7. "Phagocyte" means _____. | eating cell |
| 8. The immune system causes the body to respond to the flood of toxins released by _____. | increasing its temperature |
| 9. What do anti-malarial drugs do to fight the disease? | They wipe out the plasmodia. |
| 10. How did Eureka escape? | Eureka put the guards to sleep by showing them files of Latin and Greek terms. |

MISSION BRIEFING: Mission Log

Name _____ Class _____ Date _____

Directions: Record your observations by finding the clue that correctly matches each description. Write down the clues as you proceed through the mission.

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| 2. How many people die each year from malaria? | |
| 3. Match the achievement to the scientists on the right: a. Discovered that a mosquito carried a parasite that caused disease b. Discovered that red blood cells had a one-celled organism living in them c. His experiments proved that Anopheles mosquitoes can carry the malaria parasite | <p>_____ Laveran</p> <p>_____ Manson</p> <p>_____ Ross</p> |
| 4. What is unique about mosquitoes that bite? | |
| 5. In <i>Plasmodia Invaders</i> , the malaria parasite invades the liver and then destroys red blood cells. If too many red blood cells are destroyed, the patient can get _____. | |
| 6. In <i>Immune System Defenders</i> , B-cells make special chemicals called _____ that recognize a _____ _____ | |
| 7. "Phagocyte" means _____ | |
| 8. The immune system causes the body to respond to the flood of toxins released by _____. | |
| 9. What do anti-malarial drugs do to fight the disease? | |
| 10. How did Eureka escape? | |