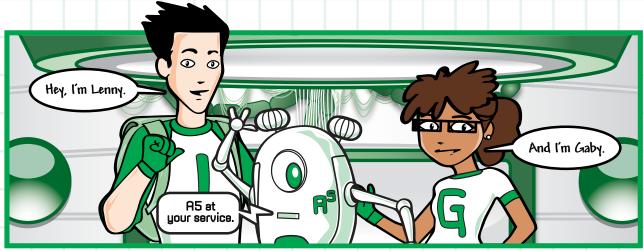
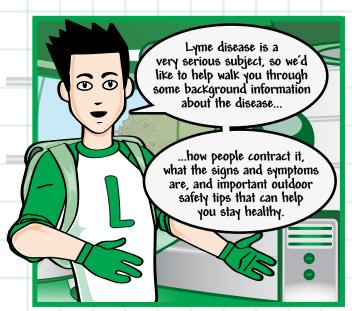


name: \_\_\_\_\_\_ date: \_\_\_\_\_



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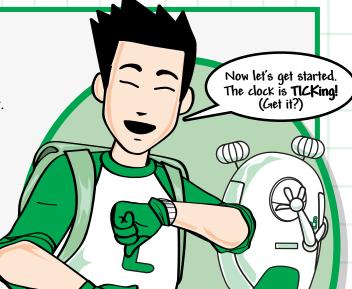


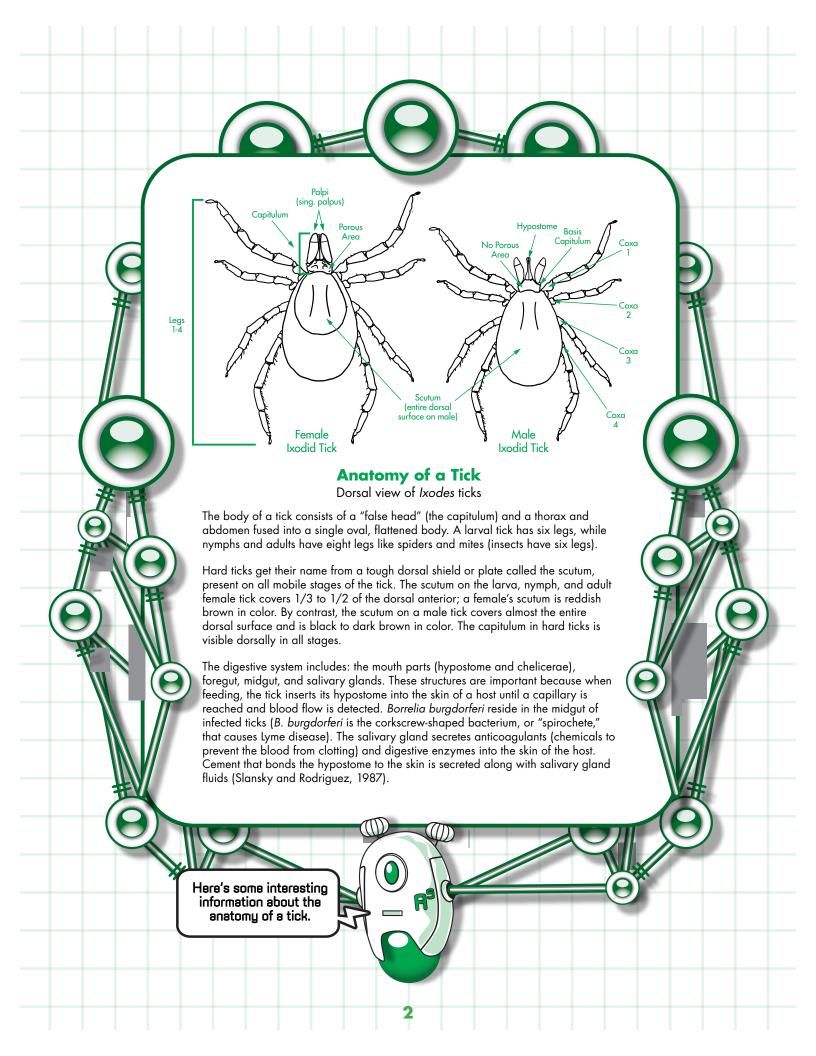


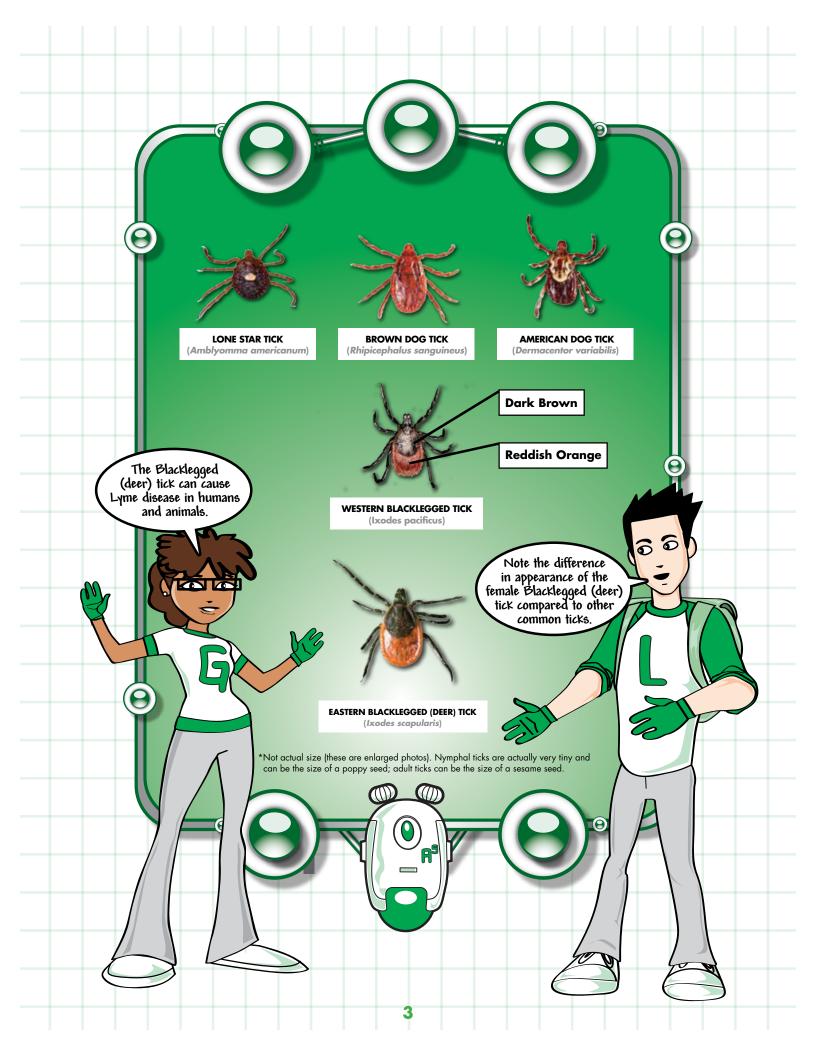
Ticks are fascinating creatures. They have been crawling the earth for **for millions of years!**Did you know that a female tick can lay up to **3,000 eggs** in her lifetime? That's a big family.

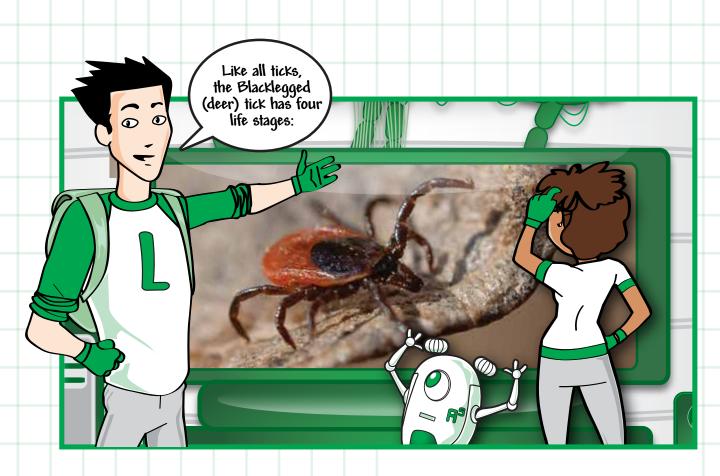
There are about **900 species of ticks** in the world, and over **90 of those live in the continental U.S.\*** They may be tiny, but certain types of ticks can cause big problems. However, it's important to note that **not all ticks cause Lyme disease.** 

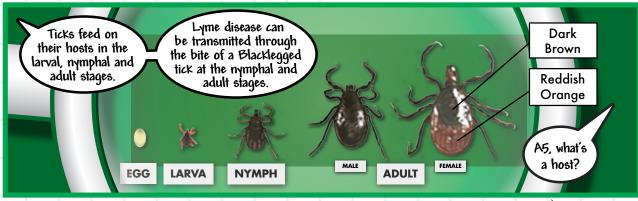
\*Purdue University program in Vector Biology and Vector-Borne Diseases website. http://extension.entm.purdue.edu/publichealth/insects/tick.html. Accessed 7/20/15.

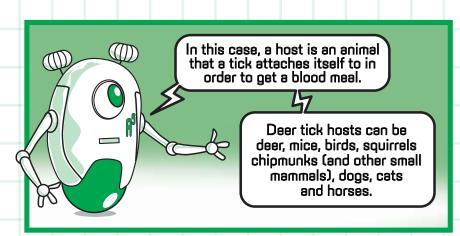




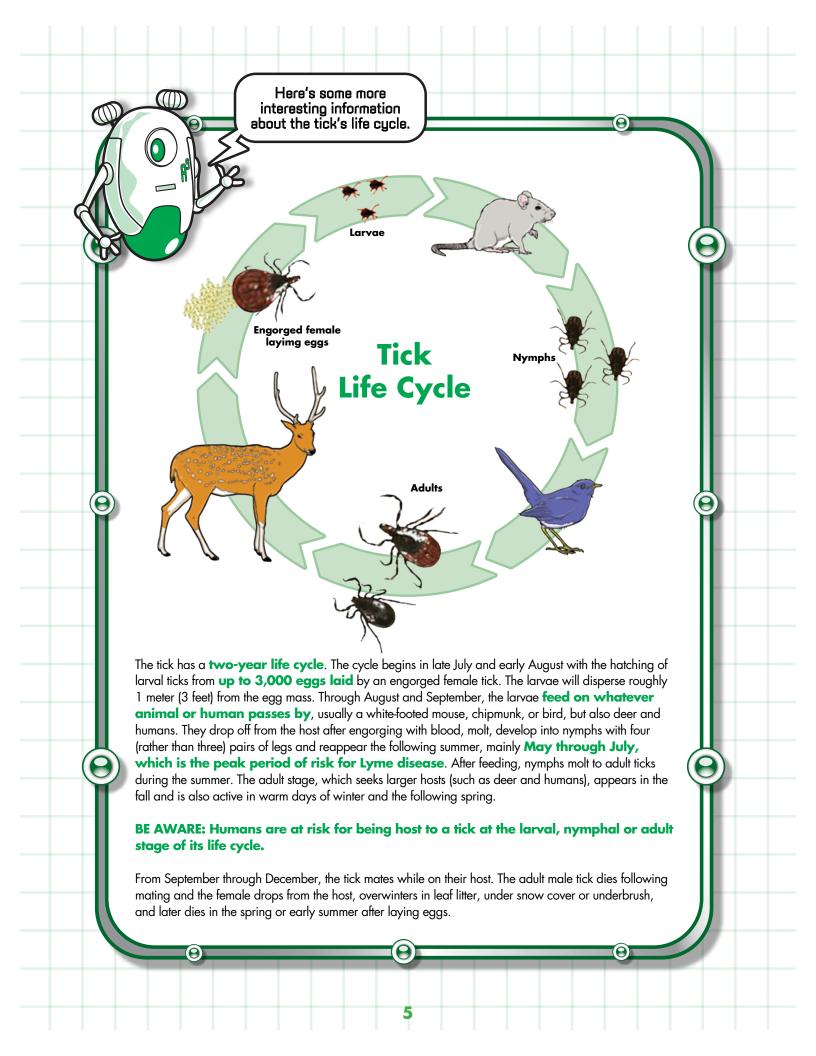


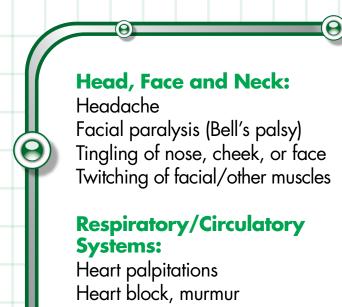












# **Psychiatric Symptoms:** Mood swings, irritability, agitation Anxiety Personality changes Feeling as though you are losing your mind

## **Cognitive Symptoms:** Poor school or work performance Attention deficit problems, distractibility Difficulty with concentration, reading, spelling Difficulty in multitasking

# **Skin Problems:**

Erythema migrans (rash)

### Ocular:

Double or blurry vision, vision changes Light sensitivity

# **Auditory:**

Sound sensitivity/pain in ears

# **Musculoskeletal System:**

Joint pain, swelling, or stiffness Migratory joint pains Muscle pain or cramps

# **Neurologic System:**

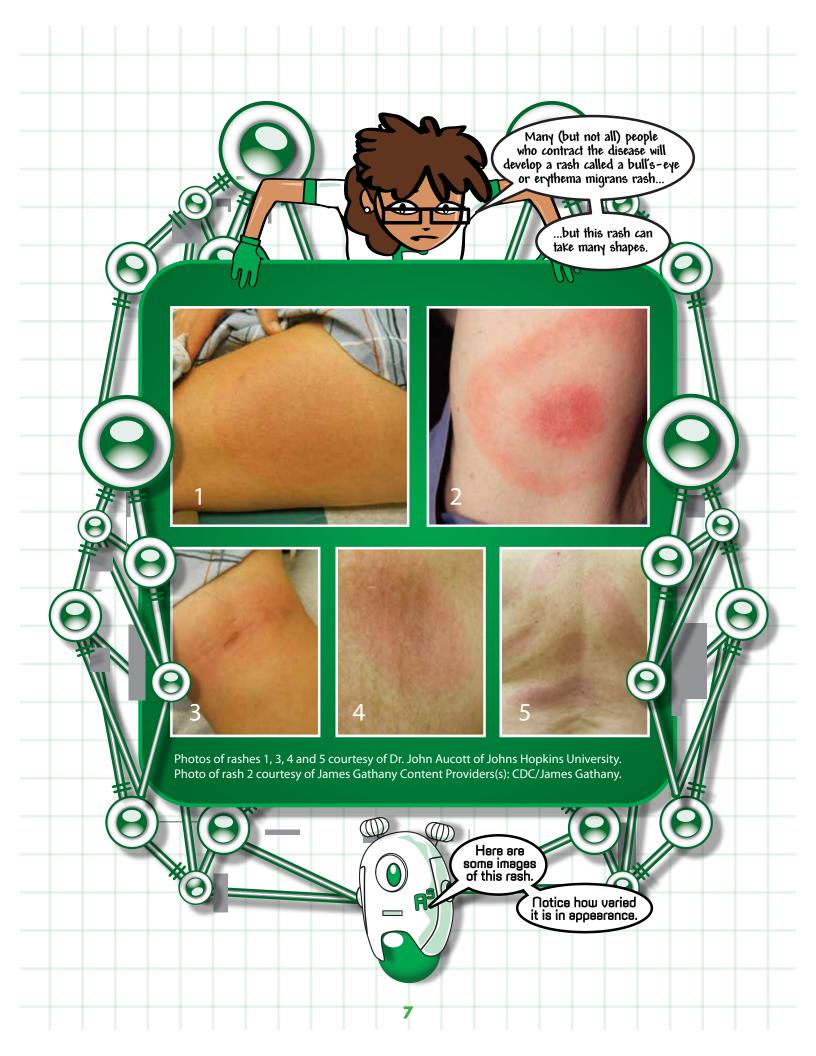
Numbness in body, tingling, pinpricks Burning/stabbing sensations in the body Burning in feet

# **General Well-being:**

Extreme fatigue, exhaustion



This is a partial list – there are many possible symptoms.





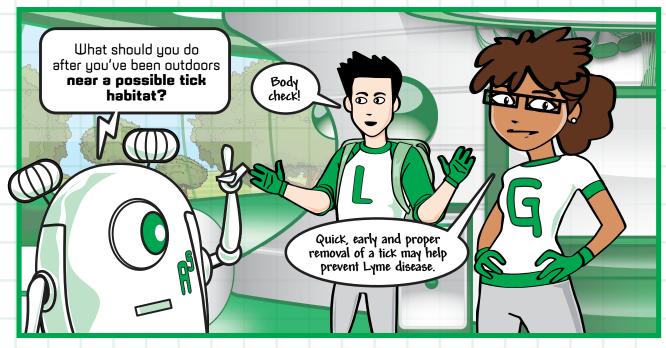


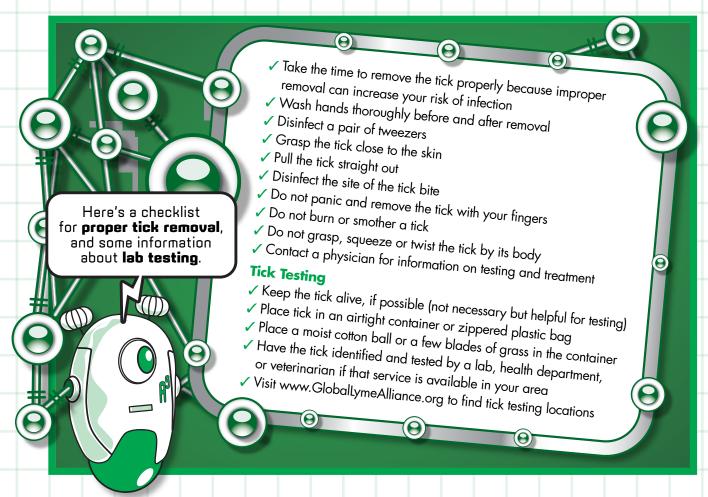
In many ways, Mike and Lori were a lot alike. Both lived in the suburbs and enjoyed sports. Lori played high school basketball and Mike played varsity soccer. Like many teens, they had numerous friends and social interests, and they enjoyed hiking in the woods. Unfortunately, Mike and Lori shared another thing in common. Both became ill from Lyme disease, a disease that is generally difficult to diagnose and grossly under-reported. Lyme disease is an illness caused by a spirochete, a corkscrew shaped bacterium. People and animals, including dogs, can be infected with the bacteria through the bite of a tiny tick.

While **neither Mike nor Lori ever noticed a tick**, they both began noticing the symptoms of Lyme disease. But this is where their stories diverge. **Mike found a 4-inch red rash on his back** one summer afternoon, and within days, the rash began to expand. **Lori never noticed a rash**, but instead developed debilitating headaches and suffered flu-like symptoms. Weeks later, she experienced fainting spells, memory problems, achy joints, and a racing heart.

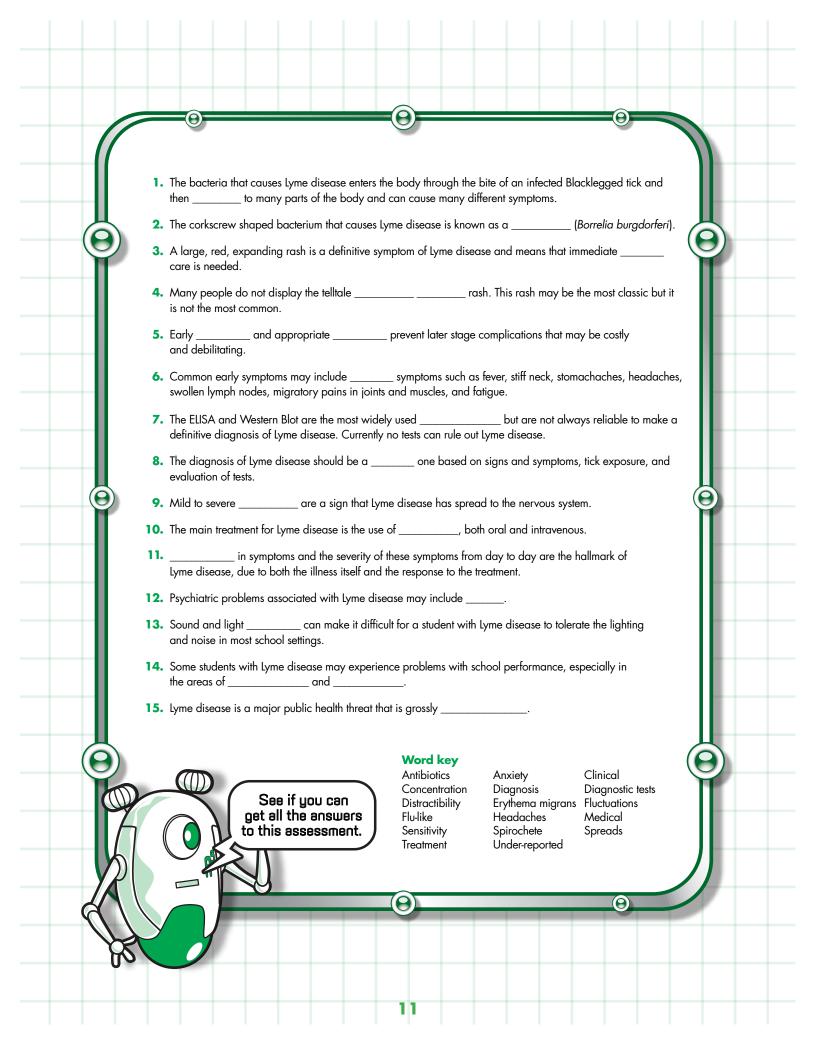
After observing Mike's rash, his physician diagnosed him with Lyme disease and prescribed antibiotics, and soon Mike's symptoms disappeared. Lori was not as fortunate. Since Lori's symptoms were consistent with many possible illnesses, Lori underwent extensive testing. Eventually, a blood test revealed that Lori was suffering from Lyme disease. She was lucky to have had a positive blood test. Many people with Lyme disease actually test negative due to the unreliability of currently available blood tests, and may go years without a proper diagnosis and necessary treatment. She was eventually treated with antibiotics, and her symptoms improved, but four years later, Lori still suffers the debilitating effects of this disease, missing many days of school and at times feeling lonely.

Most of the people who get Lyme disease respond to antibiotic treatment and improve quickly. However, some people continue to suffer long-term symptoms, despite extended treatment. Research is being done to help prevent the spread of Lyme disease, develop more accurate blood tests, and provide effective treatments for those who continue to suffer the debilitating effects of this disease.

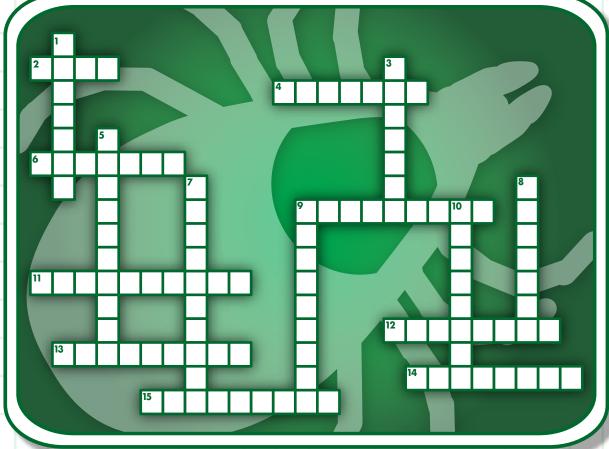










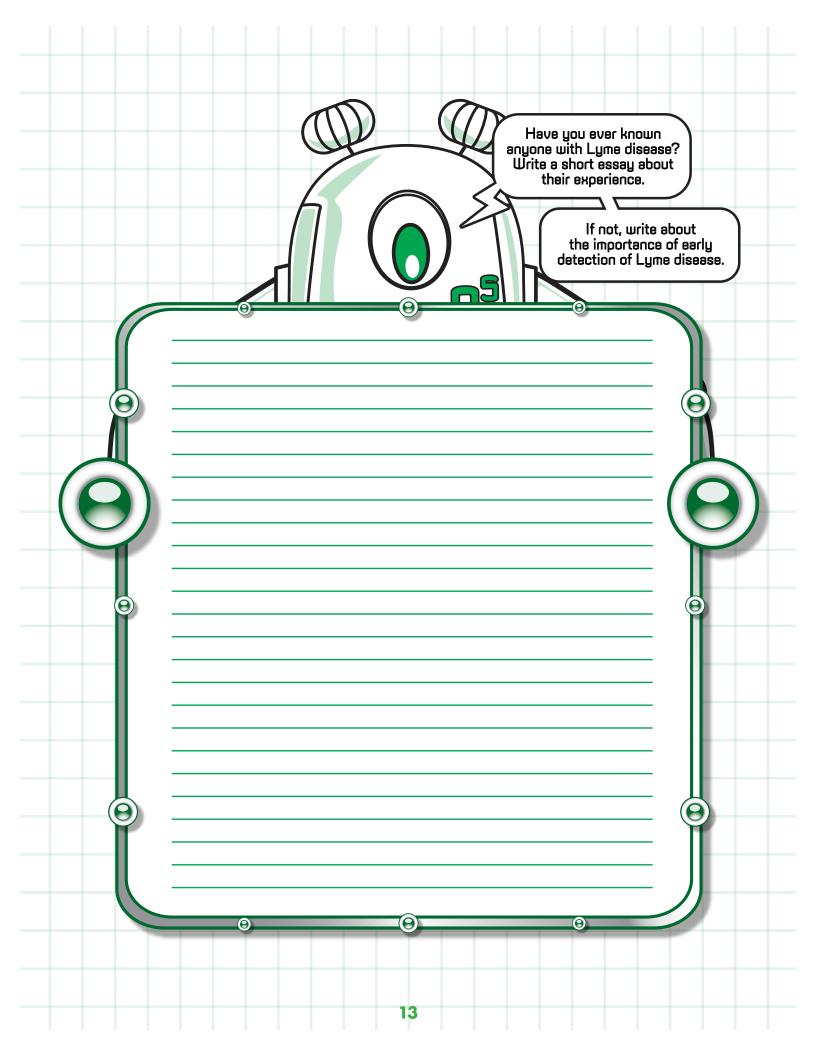


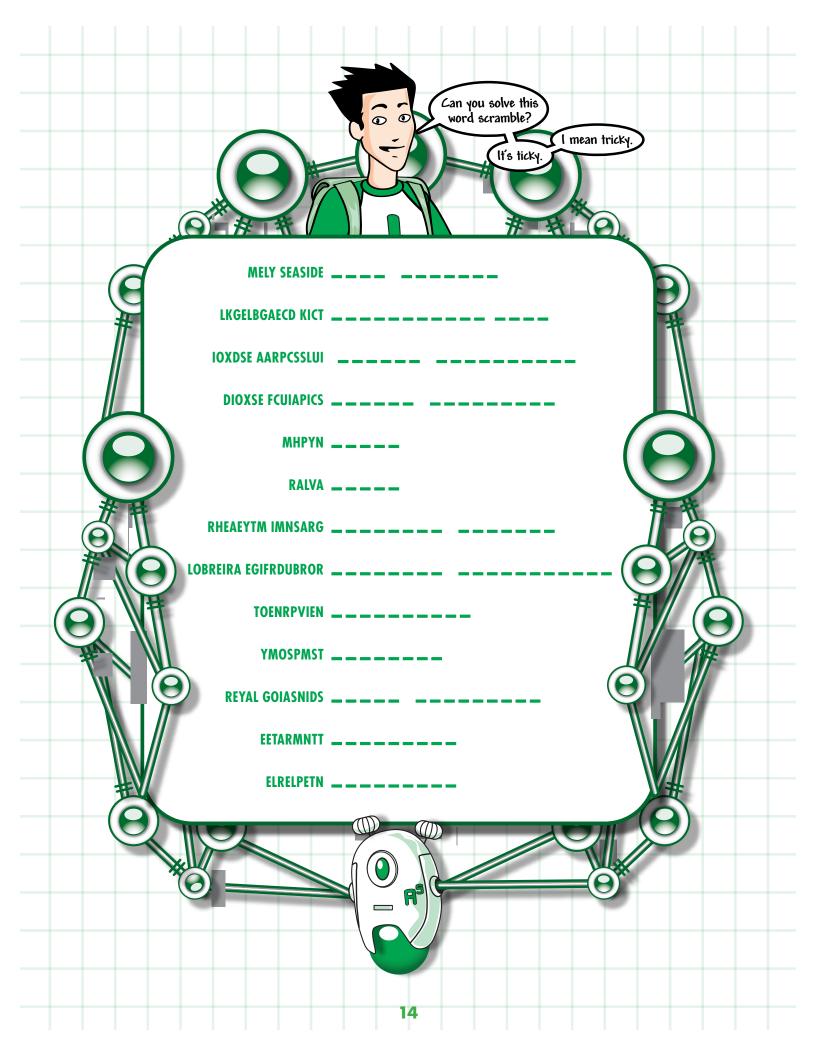
### **ACROSS:**

- 2. \_\_\_ disease was first recognized in 1975.
- 4. Improper \_\_\_\_\_ increases risk of infection.
- **6.** \_\_\_\_\_ is a symptom of Lyme disease.
- 9. lyme disease is an infectious disease caused by a \_\_\_\_\_shaped bacterium called a spirochete.
- 11. If tick removal occurs within several hours after \_\_\_\_\_, the risk of infection is greatly reduced, although not entirely eliminated.
- **12.** The body does not develop an \_\_\_\_\_ to Lyme disease.
- **13.** After removing a tick, thoroughly \_\_\_\_\_ the bite site and wash hands.
- 14. To remove an attached tick, grasp with fine-tipped \_\_\_\_\_ as close as possible to the skin and pull upward and out.
- **15.** If Lyme disease is left \_\_\_\_\_\_, complications such as heart abnormalities and problems with attention and memory may occur.

#### DOWN:

- Most Lyme disease cases are associated with the bite of a Blacklegged tick at the \_\_\_\_\_\_ stage.
- 3. The eggs of a tick hatch into larvae, which feed on small \_\_\_\_\_ (rats, chipmunks, and mice) and birds.
- 5. Ticks have four \_\_\_\_
- **7.** Ticks may be active any day of the year when the temperature is above 36 degrees \_\_\_\_\_.
- **8.** People who spend time outside in a tick-infested are at increased risk for Lyme disease.
- problems, such as problems with attention, concentration, executive functioning, short-term memory, and word retrieval can occur with people who have been diagnosed with Lyme disease.
- **10.** Symptoms may appear days, weeks, months, or even years after \_\_\_\_\_\_.







 Perform frequent and thorough tick checks; the longer the tick is attached, the greater the risk of infection

- Wear light-colored clothing
- Tuck pants into socks
- Use an appropriate tick or insect repellent on clothing and on skin, under adult supervision
- Put clothes in the dryer on high for thirty minutes to kill ticks
- An immediate shower might help remove unattached ticks

**Get the Facts** 

You can test negative and still have Lyme disease

- You can contract many tick-borne diseases simultaneously from the same tick bite
- If you have an erythema migrans (EM) rash, then you have Lyme disease; NOT EVERYONE infected with Lyme disease gets a rash
- Lyme disease is a clinical diagnosis, based on a patient's symptoms and history
- Lyme disease symptoms can develop within days, months or even years of a tick bite
- Once you're bitten and already diagnosed with Lyme disease, you can be re-infected a second time; this can make you more ill, even if you're still on medication

Check out our website for more fun activities!

www.GlobalLymeAlliance.org



