

Name: _____

PAGE **8** Cool Runnings**DIRECTIONS:** Fill in the blanks to complete the sentences below.

- The course of the Junior Iditarod follows a section of the famed Iditarod Race route, which stretches more than 1,609 kilometers (1,000 miles) from _____ to Nome, Alaska.
- Sled dogs are able to trap body heat better than humans because the dogs lack _____ and they have less _____ to their skin than humans.
- Veterinarian Dr. Michael Davis believes that the key to the dogs' high performance comes from their ability to quickly convert the _____ they consume into fuel instead of tapping into their muscles' _____.
- The main factor that limits how far a sled dog can go is _____.
- In addition to pulling power and speed, when picking a 10-dog team, mushers must look at each dog's _____ and determine how well they get along together.

PAGE **12** The Sky's the Limit**DIRECTIONS:** Match the terms in the left column with their descriptions in the right column.

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|----------------------------------|--|
| ___ 1. lenses | a. rapidly spinning remnants of a dead star |
| ___ 2. sunspots | b. a microwave telescope that is used to look at galaxy clusters |
| ___ 3. Fermi Space Telescope | c. pieces of curved glass that bend and focus light |
| ___ 4. Large Binocular Telescope | d. a group of 27 radio antennae in New Mexico that work together to gather radio waves |
| ___ 5. South Pole Telescope | e. dark spots on the sun discovered by Galileo |
| ___ 6. Very Large Array | f. the farthest-away objects that astronomers study to understand the <i>Big Bang</i> |
| ___ 7. pulsars | g. a telescope mounted to a satellite that senses gamma rays |
| ___ 8. galaxy clusters | h. a telescope that has two mirrors and detects visible light |

PAGE **16** Animal Oceanographers**DIRECTIONS:** Answer the following questions in complete sentences.

- What equipment on the elephant seals' tags are used to gather and communicate information to scientists?
- What kinds of data do the elephant seals measure as they swim and dive?
- What are the advantages of using marine mammals over taking measurements from ships or buoys?
- Why are scientists so interested in the information narwhals are gathering in Baffin Bay?