

THAT'S FAST!

Questions • Section 5.2



SCIENCE
TOPIC
OUTREACH
POSTERS

Name

Grade/Class #

Name

Grade/Class #

Level ONE Questions (#1-3)

1. What is faster, a cheetah or the goo that comes out of your mouth when you sneeze?

2. Can a Peregrine falcon travel faster than a race horse?

3. According to the graph on the poster, how fast does sound travel?

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Level TWO Questions (#4-6)

4. What could go the farthest in a minute, the space shuttle or a meteor speeding towards Earth? Explain.

5. Can we make anything go faster than the speed of light?

6. Because of the large range of speeds shown on the graph on the poster, a special scale is used. By what number do you multiply each step on the horizontal axis to get to the next step?

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Level THREE Questions (#7-10)

7. During a thunder storm, do you see the lightning first or hear the sound of thunder first? Explain.

8. Which travels farther, a three-toed sloth running for 10 hours, or a race horse running for a half-hour? How far has each traveled in those times?

9. By the time you are 10 years old, how far has the Earth traveled in its orbit around the Sun?

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Level ONE Questions (#1-3)

1. What is faster, a cheetah or the goo that comes out of your mouth when you sneeze?

Answer: The goo from a sneeze travels faster than a cheetah.

2. Can a Peregrine falcon travel faster than a race horse?

**Answer: Yes. A Peregrine falcon can travel up to 200 mi/hr.
A race horse travels about 50 mi/hr.**

3. According to the graph on the poster, how fast does sound travel?

Answer: Sound travels at about 775 mi/hr.

Level TWO Questions (#4-6)

4. What could go the farthest in a minute, the space shuttle or a meteor speeding towards Earth?

Answer: A meteor is faster and would, therefore travel the farthest in a minute.

5. Can we make anything go faster than the speed of light?

Answer: No, nothing can travel faster than the speed of light in a vacuum.

6. Because of the large range of speeds shown on the graph on the poster, a special scale is used. By what number do you multiply each step on the horizontal axis to get to the next step?

Answer: Each step on the graph is 10 times larger than the previous one.

Level THREE Questions (#7-9)

7. During a thunder storm, do you see the lightning first or hear the sound of thunder first?

Answer: You see the lightning first before hearing the thunder because light travels faster than sound.

8. Which travels farther, a three-toed sloth running for 10 hours, or a race horse running for a half-hour? How far has each traveled in those times?

Answer: The three-toed sloth travels 1.5 miles in 10 hours. The race horse travels 25 miles in a half-hour. Thus, the race horse has traveled farther.

9. By the time you are 10 years old, how far has the Earth traveled in its orbit around the Sun?

Answer: The Earth moves about 580 million miles each year, in its orbit around the Sun. After 10 years, it will have moved 5800 million miles, or 5.8 billion miles.