Name	Class	Date

## **Speed of Light in Different Materials**

## **Enrichment Activity for Lesson 19-3**

Skills: interpreting tables, analyzing

Light travels at different speeds in different materials. Study the table. Then, answer the questions.

DISTANCE OF LIGHT IN DIFFERENT MATERIALS		
Material	Speed of Light (km/s)	
Vacuum	300,000	
Air	299,000	
Ice	229,000	
Water	225,000	
Glass	197,000	
Diamond	124,000	

1.	In which material listed does light travel slowest?	

9	In which material does light travel fastest?
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3. How does the speed of light traveling from outer space change as it approaches Earth?
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<b>4</b> .	Do you think the speed of light may be related to the density of a material? If so, in what way?
	Explain your answer



