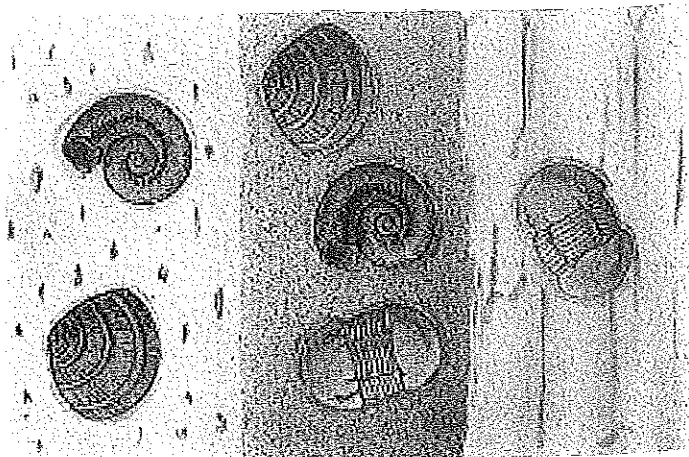


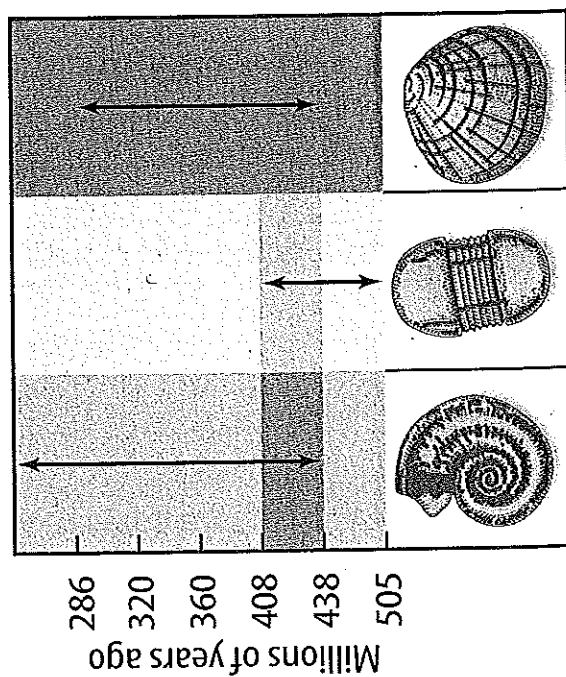
**SECTION**  
**1**

**Teaching Transparency**  
**Activity**

# Index Fossils



**Fossil Range Chart**



*Euomphalus*   *Illaeenus*   *Rhipidomella*

**Teaching Transparency Activity (continued)**

1. What are index fossils?

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2. How do scientists use index fossils?

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3. Which of the three fossil specimens existed over the longest span of time?

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4. When did *Illaenus* live?

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5. When did *Rhipidomella* live?

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6. Which fossil shown is the index fossil? How do you know?

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7. Look at the diagram on the right. During what time period was the middle layer of rock deposited? How do you know?

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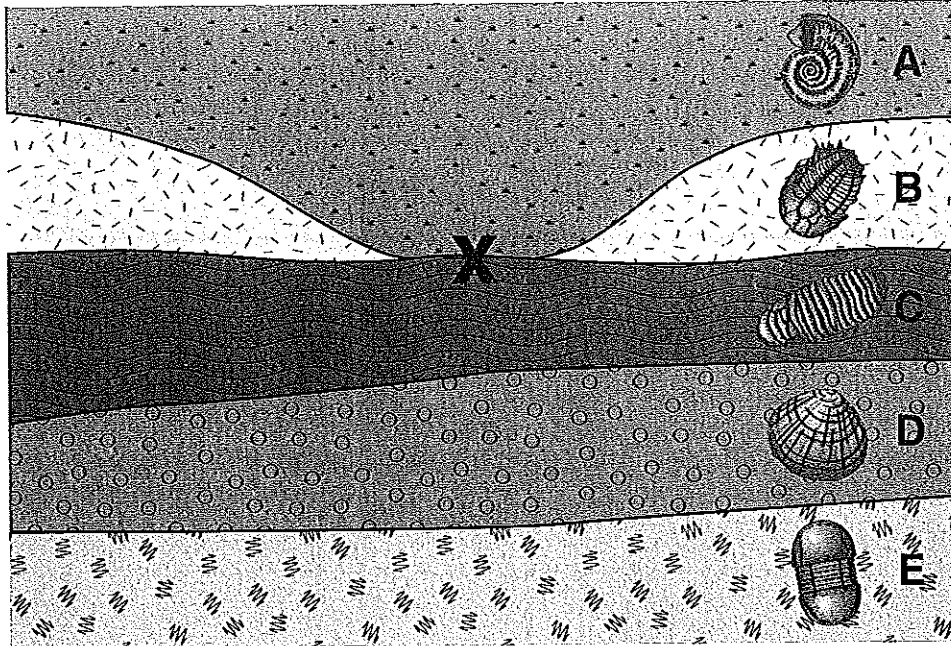
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**Assessment**  
**Transparency Activity****Clues to Earth's Past**

**Directions:** Carefully review the diagram and answer the following questions.



1. In which layer is the fossil most likely the oldest?  
A layer B  
B layer C  
C layer D  
D layer E
2. What type of feature is present at the letter X?  
F trace fossil  
G carbonaceous film  
H unconformity  
J carbon-14
3. Which of these processes most likely contributed to the formation of these layers of rock?  
A sedimentation  
B earthquakes  
C tidal waves  
D radioactive decay