

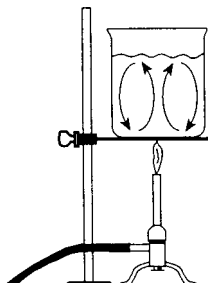
## Convection multiple choice practice

Name: \_\_\_\_\_

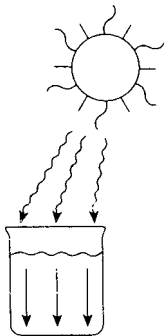
Date: \_\_\_\_\_

1. Which diagram shows the normal pattern of water movement that occurs when density differences transfer energy within the beakers?

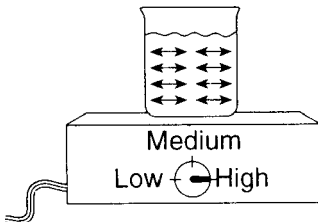
A.



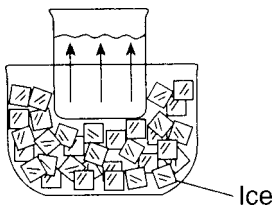
B.



C.



D.



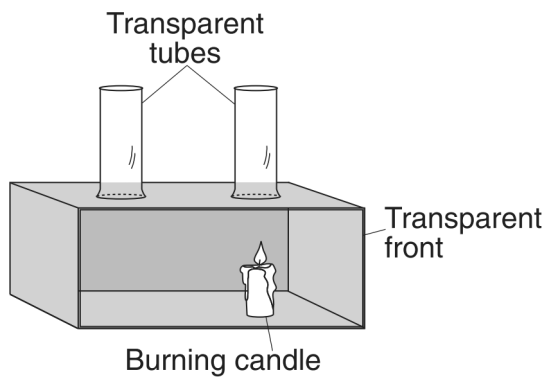
2. During which process does heat transfer occur because of density differences?

- A. conduction                      B. convection  
C. radiation                      D. reflection

3. As air on the surface of Earth warms, the density of the air

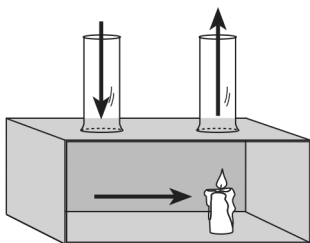
- A. decreases                      B. increases  
C. remains the same

4. The diagram below shows a laboratory box used to demonstrate the process of convection in the atmosphere.

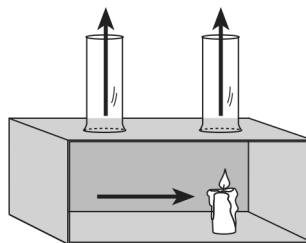


Which diagram has arrows that show the direction of airflow that occurs when the candle is burning?

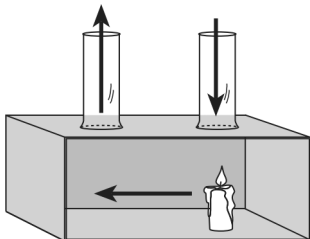
A.



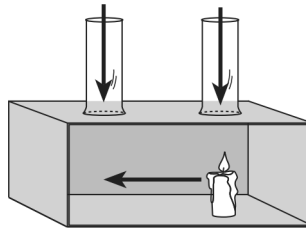
B.



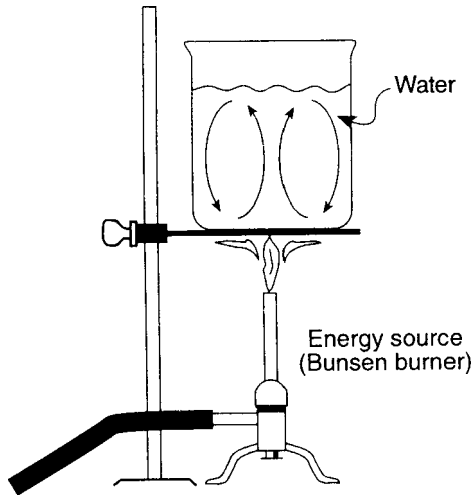
C.



D.



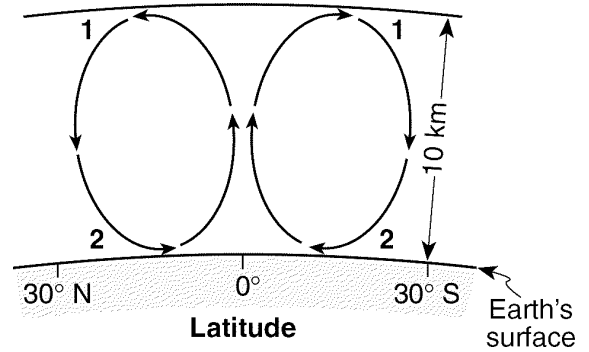
5. The accompanying diagram shows the heating of water.



The main method of heat transfer occurring within the water is called

- |               |               |
|---------------|---------------|
| A. conduction | B. convection |
| C. radiation  | D. insolation |

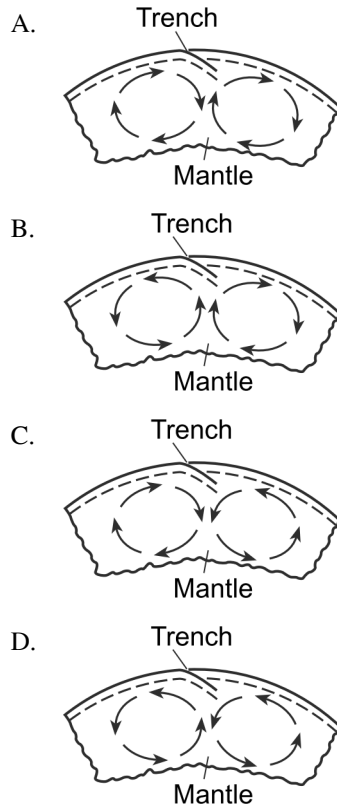
6. Base your answer(s) to the following question(s) on the cross section below and on your knowledge of Earth science. The cross section shows the general movement of air within a portion of Earth's atmosphere located between  $30^{\circ}\text{N}$  and  $30^{\circ}\text{S}$  latitude. Numbers 1 and 2 represent different locations in the atmosphere.



The air movement shown in the cross section is due to the process of

- |                 |               |
|-----------------|---------------|
| A. condensation | B. conduction |
| C. evaporation  | D. convection |

7. Which cross section best represents the convection currents in the mantle beneath the Peru-Chile Trench?



8. Which transfer of energy occurs mainly through the process of convection?

- A. electromagnetic energy transferred from the Sun to the Moon
- B. solar energy transferred through space to Earth's surface
- C. heated air in the lower atmosphere transferred upward by density differences
- D. heat from radioactive decay transferred by molecular collisions to surrounding mantle rock

Convection multiple choice practice 6/19/2018

1.  
Answer: A
2.  
Answer: B
3.  
Answer: A
4.  
Answer: A
5.  
Answer: B
6.  
Answer: D
7.  
Answer: C
8.  
Answer: C