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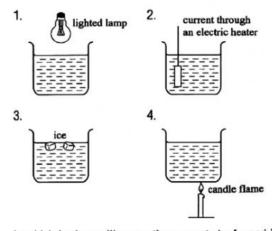
E: Athensvn.edu@gmail.com

A: Trung Yên 10, Trung Hòa, Cầu Giấy, Hà Nội.

10. Clay is offen used to make stew pots and tea pots with the purpose of keeping the food warm over long periods of time.

Which statement best explains why clay is used?

- Clay is a good conductor of heat
- В Clay is a poor conductor of heat
- C Clay has smooth surface
- D Clay is a good absorber of heat radiation
- 11. 100g of water, initially at 80°C, is poured into an aluminium can of mass 100g, initially at 40°C. When thermal equilibrium between the water and the aluminium is attained, the temperature is most likely
- A. 80 °C
- **B.** Between 60 °C and 80 °C C. 60 °C
- D. Between 40 °C and 60°C
- 12. Which of following does not involve convection?
- A boiling water with a Bunsen burner at the bottom
- B fixing air conditioner at the top of the room
- C frying food with a pan
- D land breeze and sea breeze
- 13. Density changes in fluids are involved in
- A convection only
- B conduction only
- C radiation only
- D conduction, convection and radiation
- 14. The diagram shows four beakers of water with different set-ups.



In which beakers will convection currents be formed in the water?

- 4 only
- 2 and 4 only
- 2, 3 and 4 only
- D All of the above

CHƯƠNG TRÌNH ĐÀO TAO PHổ THÔNG CẤP 1-2-3 CÁC NGÀY TRONG TUẦN

- Khoa học (tích hợp chương trình Lý-Hóa-Sinh tiếng Anh, tiếng Việt)
- Toán (tích hợp chương trình tiếng Việt, tiếng Anh)
- Tiếng Anh (học bổng ASEAN/ASTAR, luyện thi chứng chỉ Cambridge)





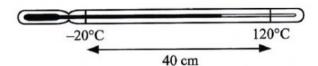
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15. What is 478°C in the absolute scale?

- **16**. What modification can be made to a liquid-in-glass thermometer to make it more sensitive?
- A. make the thermometer longer
- B. make the bulb smaller
- C. make the capillary tube inside thinner
- D. make the bulb bigger
- 17. The diagram below shows a mercury-in-glass thermometer. The distance between the -20°C mark and the 120°C mark is 40 cm.



If the mercury thread reaches 32 cm away from the -20°C mark, what is the temperature that the thermometer is measuring?

18. A substance at -20°C was raised in temperature to 289°C. What is the corresponding change in temperature in Kelvin?

A. 269 K

C. 542 K

B. 309 K

D. 582 K

19. John found that 4800 J is needed to raise the temperature of 150 g of liquid from 20°C to 100°C.

What is the specific heat capacity of the liquid?

20. The specific heat capacity of copper is 400 J/kg °C. A 5.0 kg copper solid is being heated from 25 °C to 50 °C. How much heat was transferred to the copper during the heating process?

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