

# Physics 1A (PHY 1A)

## multiple choice

Science Interactive LTD, PO BOX 50764 LONDON NW6 9AT email: [sales@science-interactive.co.uk](mailto:sales@science-interactive.co.uk)

web: [www.science-interactive.co.uk](http://www.science-interactive.co.uk)



Click mouse to reveal answer

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1: Which of the following statements is not correct ?

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- A Cold objects emit radiation
  - B Convection only happens in solids
  - C Hot objects can absorb radiation
  - D Temperature is measured in °C
- 

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2: A mobile phone transforms electrical energy into which three forms of energy ?

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- A Kinetic, light and chemical
  - B Heat, light and sound
  - C Light, heat and nuclear
  - D Sound, kinetic and chemical
- 

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3: Which method of generating electricity uses falling water ?

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- A Wind turbine
  - B Solar cells
  - C Hydroelectric dam
  - D Coal fire power station
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4: Inside a power station, what is the correct sequence ?

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- A Coal > Heat > Steam > Turbine
  - B Coal > Steam > Turbine > Heat
  - C Turbine > Coal > Heat > Steam
  - D Steam > Turbine > Heat > Coal
-

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5: Which of the following statements about heat transfer is not true ?

- A A thermos can only keep things hot
- B Blankets reduce heat transfer
- C Foil reflects radiated heat
- D Dark objects are good absorbers of heat

6: What is the meaning of an energy efficient device ?

- A It cost less to run
- B It uses less electrical energy
- C It costs less to buy
- D It lasts longer

7: A bulb has a power of 60 watts. How many joules does it use in 10 seconds ?

- A 60 joules
- B 6 joules
- C 600 joules
- D 6000 joules

8: Polystyrene is a poor conductor of heat because it ?

- A Is synthetic
- B Is light
- C Traps air
- D Is warm to the touch

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9: A television is 23% efficient. What is the input energy if the output was 230 joules ?

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- A 100 joules
  - B 2300 joules
  - C 1000 joules
  - D 960 joules
- 

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10: What statement about all electrical devices is incorrect ?

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- A All machines waste some energy
  - B All machines produce heat energy
  - C Some machines are 100% efficient
  - D Efficient machines waste less energy
- 

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11: Heat transfer from a hot cup of coffee to its surroundings can be reduced by ?

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- A Drinking it quickly
  - B Insulating the cup
  - C Not stirring the coffee
  - D Not adding sugar
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12: In a house, cavity wall and loft insulation works by ?

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- A Trapping air molecules
  - B Reflecting heat back
  - C Stopping drafts
  - D Stopping the cold coming in
-

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B

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