

# Textbook questions

## Homework I

**Instructions for students:** Follow your teacher's instruction. Also you can attempt this test online and see your result.

[Attempt online and know results](#)

**Topic:** Textbook questions

**Dates:** 05.10.2022 until unlimited

**Question count:** 3

**Total marks:** 21

**1. Choose the appropriate answer (4 m.)**

**1. When an object is heated, the molecules that make up the object**

- A) become lighter
- B) lose energy
- C) begin to move faster
- D) become heavier

**2. The unit of heat is**

- A) Newton
- B) Joule
- C) Volt
- D) Celsius

3. One litre of water at  $30^{\circ}C$  is mixed with one litre of water at  $50^{\circ}C$ . The temperature of the mixture will be

- A)  $80^{\circ}C$
- B) around  $40^{\circ}C$
- C) More than  $50^{\circ}C$  but less than  $80^{\circ}C$
- D)  $20^{\circ}C$

4. An iron ball at  $50^{\circ}C$  is dropped in a mug containing water at  $50^{\circ}C$ . The heat will

- A) not flow from iron ball to water or from water to iron ball
- B) flow from water to iron ball
- C) increase the temperature of both
- D) flow from iron ball to water

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2. Fill in the blanks (7 m.)

expand	Celsius	Kelvin
equilibrium	temperature	contract

contact	Fahrenheit	Hot
heat	Cold	inequality

1. Heat flows from a ..... body to ..... body.
2. The hotness of the object is determined by its .....
3. The SI unit of temperature is .....
4. Solids ..... on heating and ..... on cooling.
5. Two bodies are said to be in the state of thermal ..... if there is no transfer of heat taking place.

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3. True or False. If False, give the correct statement I (10 m.)

1. Heat is a kind of energy that flows from a hot body to a cold body.

A) False

B) True

A) Heat is a kind of energy that flows from a hot body to a cold body

B) Heat is a kind of energy that flows from a cold body to a hot body

**2. Steam is formed when heat is released from water.**

A) True

B) False

A) Steam is formed when heat is added to water

B) Steam is formed when heat is released from water

**3. Thermal expansion is always a nuisance.**

A) True

B) False

A) Thermal expansion is always beneficial

B) Thermal expansion is always a nuisance

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