

Across the Curriculum: Science

Развитие навыков поискового чтения, выполнение заданий экзаменационного формата

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Результат

Развитие навыков поискового чтения, выполнение заданий экзаменационного формата



Обрати внимание

Study the vocabulary.

boiling point	точка кипения	heat	тепло, жара
constantly	постоянно	increase	увеличиваться,
contract	сужаться		повышаться
decrease	уменьшаться, понижаться	joule	джоуль (мера измерения энергии)
degree	градус	measure	мера, измерять
determine	определять	measurement	показатель
exchange	обмениваться	nuclear reaction	ядерная реакция
expand	расширяться	scale	шкала
freezing point	температура замерзания	tongue	язык
friction	трение	warm	нагревать, согреть



Сделай сам

1. Fill in the gaps.

boiling point
constantly
contracts
expands

freezing point
heat
measure
measurements

1. Insulating the attic is a good way to reduce _____ loss.
2. Metal _____ as it cools.
3. She _____ criticizes my cooking.
4. Take _____ of the room before you buy any new furniture.
5. This is the _____ of water at one atmosphere.
6. Water _____ as it freezes.
7. We can _____ the energy that food provides in calories.
8. Yet it was not really cold here; the temperature was well above _____.

2. Read the statements. Which of them do you agree with?

Statements	Before reading	After reading
1) A thermometer measures the average kinetic energy of a substance or an environment. 2) A lower temperature means the molecules are moving more quickly. 3) Heat and temperature are the same. 4) Heat is measured in joules.		

Now read the text (Ex 1, page 152) and check.

3. Read the statements. Which of them do you agree with?

Statements	Before reading	After reading
a) Thermometers measure heat. b) Mercury becomes bigger when it is cooled. c) The Celsius scale was invented before the Fahrenheit scale. d) The boiling point of water on the Fahrenheit scale is 212°F.		

Now read the text (Ex 2 B, page 152) and check.

4. Answer the questions

What is heat? — _____

What is temperature? — _____

How are heat and temperature measured? — _____



Запомни. Важно

Выполняя задания на заполнение пропусков в тексте, всегда обращай внимание на «окружающие» лексические единицы и контекст. В данном разделе также пригодятся знания по физике.



Разбираем вместе

1. Read the text. Fill in the gaps.

contracts

extremes

mercury

devised

horticulture

meteorology

distance

infrared

radiation

expands

marked

six's

Different Types of Thermometers

A 1 _____ thermometer consists of **mercury** in a glass tube. The tube is 1 2 _____ so that the temperature can be read by how far the **mercury** reaches along the tube. The **mercury** 3 _____ due to the heat and rises up the tube and 4 _____ in the cold and goes back down the tube. They are sometimes used in medicine.

1 — Нам необходимо подобрать название (тип) градусника. В тексте упоминается ртуть (*mercury*), следовательно, и градусник — ртутный (**mercury**).

2 — В предложении речь идет о разметке ртутного столба, необходимой для определения температуры — **marked**.

3 — Проверь свои знания по физике — при нагревании ртуть расширяется — **expands**.

4 — Проверь свои знания по физике — при охлаждении ртуть сужается — **contracts**.



Сделай сам

They used to be used in 5 _____ to measure body temperature but have now been replaced by electronic thermometers or ones that contain alcohol that has been dyed red.

An 6 _____ thermometer, also called a laser thermometer, measures temperature by measuring an object's infrared energy 7 _____. They can measure temperature from a 8 _____. They are used in medical equipment and in electronics production and testing.

A maximum-minimum thermometer, also called a 9 _____ thermometer, measures the maximum and minimum temperature during a given time. It was 10 _____ by James Six in 1782. It is used in 11 _____ and meteorology to measure the 12 _____ of temperature at a location.