

1. Прочитайте и переведите текст
2. Выполните задания (тест) к тексту
3. Выпишите из текста все открытия, сделанные Ньютоном. Используйте предложения в пассивном залоге (Passive Voice)

Работа с текстом.

A. Прочитайте текст и подберите заголовок к каждому абзацу, в задании имеется один лишний заголовок:

- a) Three Great Discoveries
- b) Newton's Parents
- c) Gravitation
- d) Newton's Schooldays
- e) Newton's Investigation in the Nature of Light
- f) A Monument to Newton

NEWTON (1642-1727)

1. Newton, one of the greatest scientists of all time, was born on the 25th of December 1642, at the little village of Wools Thorpe in Lincolnshire. His father was a farmer and had died before Newton was born. His mother was a clever woman for whom Newton retained a great love all his life.

2. Newton's school days were not remarkable. He studied mathematics at Cambridge and took his degree there in 1665. Then the University was closed because of the danger of plague and Newton went home for a period of eighteen months, which was a most important period, for during that time Newton, between the ages of 22 and 24, made his three great discoveries — the discovery of the differential calculus, of the nature of white light, and of the law of gravitation.

These three great discoveries, which have changed the course of thought, have also influenced the course of science from that day until our days.

3. Newton had always been interested in the problem of light. Most people have seen the colours of the rainbow reflected in a drop of dew but it was Newton who, by his experiments, showed that white light is made up of these different colours.

4. It is interesting how the idea, which led to the discovery of the laws governing the forces of gravitation, first came to him. Once, as he sat in his garden the fall of the apple made him think: why must that apple always descend perpendicularly to the ground? Why must it not go sideways or upwards, but usually, to

the earth's centre? Certainly, the reason is that the earth draws it. An apple falling was not an unusual event, but only Newton drew from his sight the inspiration and particular demonstration, which led to a great scientific discovery. By degrees he began to apply this property of gravitation to the motion of the earth and the heavenly bodies round the sun.

5. Newton died when he was 84, and was buried in Westminster Abbey, where his monument is today.

В. Закончите предложения в соответствии с содержанием текста:

1. *Newton's father died*
 - a) when Newton was a little boy.
 - b) after Newton was born.
 - c) before Newton was born.
2. *At the university Newton studied*
 - a) the laws of gravitation.
 - b) mathematics.
 - c) physics.
3. *After graduation from the university*
 - a) he worked there.
 - b) he went home.
 - c) he fell ill.
4. *The university was closed because*
 - a) there were no students.
 - b) Newton graduated from it.
 - c) of the danger of plague.
5. *Newton discovered that*
 - a) the white colour of the light consists of various colours.
 - b) the white colour is made up of drops of dew.
 - c) the white colour includes some details.

С. Выберите правильный ответ на вопрос по содержанию текста:

1. *Where was Newton born?*
 - a) In Great Britain.
 - b) In the USA.
 - c) In Australia.
2. *What was his father?*
 - a) A farmer.
 - b) A scientist.
 - c) A clever man.

3. *When did Newton make his three discoveries?*
 - a) When he was a little boy.
 - b) When he was eighteen.
 - c) After graduation from the university.

4. *Where did the idea of gravitation first come to him?*
 - a) At the university.
 - b) In the school.
 - c) In the garden.

5. *Where was Newton buried?*
 - a) In the USA.
 - b) In the UK.
 - c) In the USSR.

D. Восстановите пропущенное слово:

1. *Newton's mother was ...*
 - a) intelligent.
 - b) not clever.
 - c) not remarkable.

2. *The Cambridge university was ...*
 - a) shut.
 - b) not closed.
 - c) removed.

3. *Newton's discoveries have a great ... on the science today.*
 - a) importance.
 - b) course.
 - c) influence

4. *The apple is falling ... on the ground.*
 - a) sideways
 - b) downwards
 - c) upwards

5. *The fall of the apple made him ...*
 - a) think.
 - b) to think.
 - c) to have a thought.

E. Замените выделенное слово синонимом:

1. *He was born in a little village.*
 - a) small

- b) large
 - c) big
2. *Newton is a famous scientist.*
- a) important
 - b) well-known
 - c) remarkable
3. *The apple always descends perpendicularly to the ground.*
- a) comes down
 - b) draws
 - c) goes upwards
4. *He began to apply this property of gravitation.*
- a) to fall
 - b) to use
 - c) to draw
5. *The white light is made of different colours.*
- a) consists of
 - b) is applied to
 - c) changes

Ф. Выберите правильный перевод предложений:

1. *Newton retained a great love for his mother all his life.*
- a) Ньютон сохранил большую любовь к своей матери на протяжении всей своей жизни.
 - b) Ньютон любил свою мать.
 - c) Ньютон сохранил большую любовь к своей матери.
2. *These three discoveries have changed the course of thought.*
- a) Три открытия изменили ход мысли.
 - b) Эти три открытия изменили ход мысли.
 - c) Эти открытия изменили ход мысли.
- It is interesting how the idea first came to him.*
- a) Его первая идея интересна.
 - b) Интересно, как впервые идея пришла к нему.
 - c) Интересная идея впервые пришла к нему.
4. *The idea led to the discovery of the laws of gravitation.*
- a) Идея, которая привела к открытию законов гравитации.
 - b) Он открыл законы гравитации.
 - c) Идея привела к открытию законов гравитации.
5. *The reason is that the earth draws the apple.*
- a) Причина в том, что земля притягивает яблоко.

- b) Причина в том, что земля притягивает его.
- c) Причина в том, что она притягивает его.