

For questions 9-16, read the text below and think of the word which best fits each gap. Use only one word in each gap. There is an example at the beginning (0).

Write your answers IN CAPITAL LETTERS.

Example: (0) **FOR**

The light bulb

One thing we tend to take **0** _____ granted is that our homes have adequate levels of light during evening and night hours. This is a fairly new luxury that is just over 100 years old, as in the past people had to resort **9** _____ candles for lighting.

A number of different scientists and engineers are credited **10** _____ this invention, all of them eventually arriving at the same design. The main element of the light bulb is a wire that is heated to extreme temperatures, giving off the light. This wire, called the filament, is encased in a vacuum-filled glass bulb, hence the name. The vacuum is to make sure no oxidization of the filament **11** _____ place so that the wire does not rust. After years of experimenting, the final design used tungsten for the wire, chosen primarily **12** _____ its extremely high melting point of around 3500 C. This ensured long service life.

The traditional light bulb, technically referred to as incandescent, was eventually ousted **13** _____ light-emitting diode lamps, also known as energy-saving lamps. The old-style light bulb had one serious flaw – they had terrible energy efficiency, turning almost 90% of the energy into heat **14** _____ of light. LED lamps had this shortcoming covered, allowing to drastically reduce energy consumption **15** _____ sacrificing light levels or reliability. As a matter of **16** _____, both of them get significantly improved. So even though there is bulb, we still call it the same name we have grown used to.

Answers and explanations

9. **To.** Resorting to something means choosing to do something because you have no other (better) options. If you resort to something, you do so unwillingly, because you have no choice.
10. **For/with.** Both prepositions work in this context that shows that these people are acknowledged to be responsible for the invention that this text talks about.
11. **Takes.** To take place is to happen – as easy as that. The only difficulty here is getting the tense right – make sure to use the present simple to maintain consistency with the rest of the sentence.
12. **For.** ‘Because’ cannot work here, it needs a structure like ‘because of its’ to fit grammatically.
13. **By.** When one thing or person gets ousted by another, it means that it is replaced by it. ‘Ousted with’ is not used and is therefore incorrect.
14. **Instead.** Obviously, the idea is to produce light and not heat. However, the old design leads to energy going to generating heat instead of light.
15. **Without.** ‘While’ here can fit grammatically, but the opposite is true – neither reliability, nor light levels suffer from the switch to the new technology.
16. **Fact.** As it turns out, the way things are. This sentence also helps us make the right choice in the previous gap. ‘As a matter of things’, ‘as a matter of truth’ do not make established phrases.