

Write one word in each gap.

The scramjet

Imagine (1) transported around the globe in a matter of hours, rather than the 24 hours which (2) currently required to get from London to Sydney. Such is the promise of the scramjet, a highly experimental type of engine which has been (3) development over the past couple of decades. In a conventional jet engine, air (4) sucked into the engine at speeds below the speed of sound, where it is mixed (5) fuel, ignited, and the exhaust gases provide thrust. In a scramjet, which has to (6) taken to supersonic speeds by conventional means before it will operate, the air enters at supersonic speeds.

It has (7) estimated that a scramjet might be capable of travelling at 12-24 times the speed of sound. However, the technology (8) been found to be extremely difficult to control. Although scientists (9) had scramjets perform short flights, commercial aircraft are still a long way in the future, and indeed may never (10) successfully developed.

For questions 1–8, read the text below. Use the word given in capitals at the end of some of the lines to form a word that fits the gap in the same line.

The importance of natural light in the workplace

Recent studies have confirmed the views expressed by workers for years.

(0) *Researchers* have been monitoring workers in different offices. Employees working under artificial lights showed some (1)

RESEARCH

characteristics. First, having no natural daylight resulted in workers having problems with (2)

REMARK

Most were unable to work effectively for more than 20 minutes. Second, there were more instances of workers being (3)

CONCENTRATE

or aggressive towards colleagues. This may lead to a breakdown in (4)

POLITE

between co-workers. (5)

FRIEND

cases such as these were not isolated and it is clear that relationships were being harmed. Third, workers reported an (6)

FORTUNE

to get to sleep at night. Moreover, on average, they slept for 46 minutes less than workers who enjoyed natural light. In (7)

ABLE

there is no doubt that working in a windowless office has serious affects. Employees' (8)

CONCLUDE

suffers, as does their general health.

PERFORM