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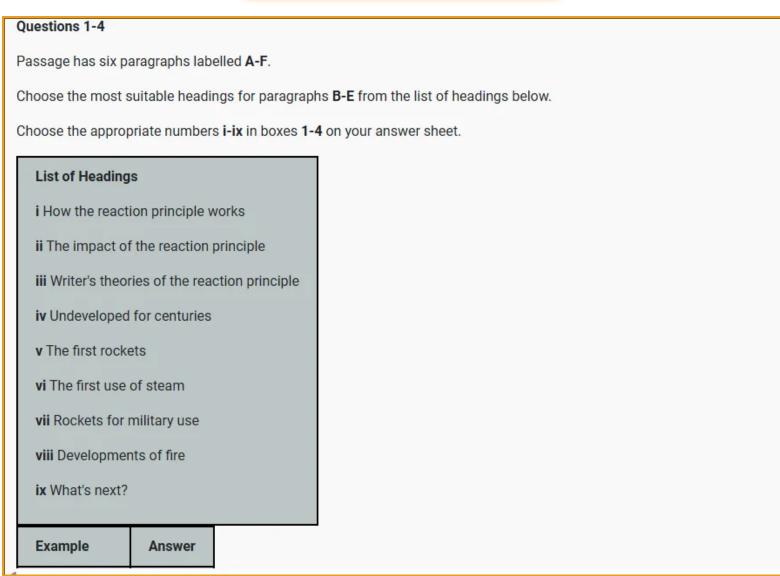
## IELTS READING - THE ROCKET FROM EAST TO WEST S49AT1



IELTS Reading THE ROCKET FROM EAST TO WEST reading practice test has 10 questions..

A. The concept of the rocket, or rather the mechanism behind the idea of propelling an object into the air, has been around for well over two thousand years. However, it wasn't until the discovery of the reaction principle, 05 which was the key to space travel and so represents one of the great milestones in the history of scientific thought, that rocket technology was able to develop. Not only did it solve a problem that had intrigued man for ages, but, more importantly, it literally opened the door to the exploration of the universe.

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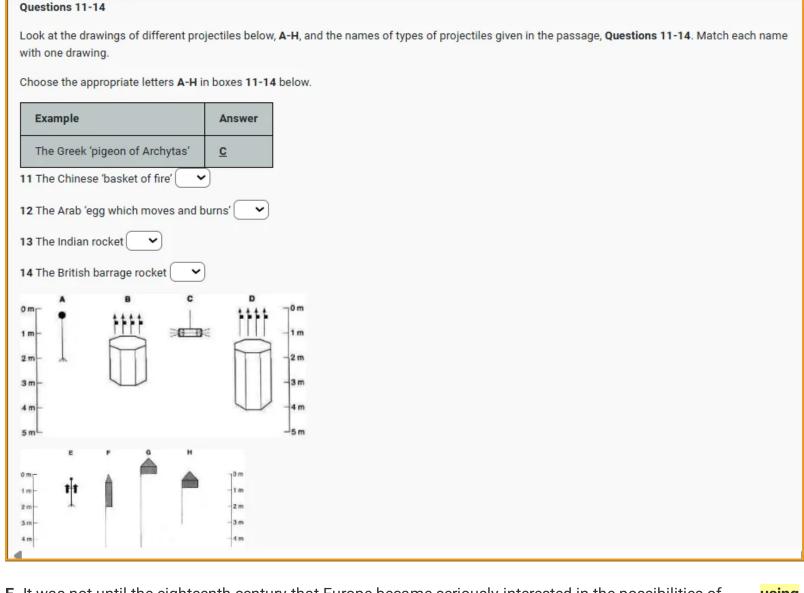
	Example Answer
	1 Paragraph B
	2 Paragraph C v
	3 Paragraph D
	4 Paragraph E
	Questions 5 and 6
	Choose the appropriate letters A-D and select them in boxes 5 and 6 below.
	5 The greatest outcome of the discovery of the reaction principle was that
	○ A rockets could be propelled into the air.
O <b>B</b> space travel became a reality.	
	○ <b>C</b> a major problem had been solved.
	O <b>D</b> bigger rockets were able to be built.
	6 According to the text, the greatest progress in rocket technology was made
	O A from the tenth to the thirteenth centuries.
	O <b>B</b> from the seventeenth to the nineteenth centuries.
	O C from the early nineteenth to the late nineteenth century.
	O <b>D</b> from the late nineteenth century to the present day.

B. 01 An intellectual breakthrough, brilliant though it may be, does not automatically ensure that the transition is made from theory to practice. Despite the fact that rockets had been used sporadically for several hundred years, they remained a relatively minor artefact of civilization until the twentieth century. Prodigious efforts, accelerated during two world wars, were required before the technology of primitive rocketry could be translated into the reality of sophisticated astronauts. It is strange that the rocket was generally ignored by writers of fiction to transport their heroes to mysterious realms beyond the Earth, even though it had been commonly used in fireworks displays in China since the thirteenth century. The reason is that nobody associated the reaction principle with the idea of traveling through space to a neighbouring world.

C. A simple analogy can help us to understand how a rocket operates. It is much like a machine gun mounted on the rear of a boat. In reaction to the backward discharge of bullets, the gun, and hence the boat, move forwards. A rocket motor's 'bullets' are minute, high-speed particles produced by burning propellants in a suitable chamber. The reaction to the ejection of these small particles causes the rocket to move forwards. There is evidence that 02 the reaction principle was applied practically well before the rocket was invented. In his Noctes Atticae or Greek Nights, Aulus Gellius describes 'the pigeon of Archytas', an invention dating back to about 360 BC. Cylindrical in shape, made of wood, and hanging from string, it was moved to and fro by steam blowing out from small exhaust ports at either end. The reaction to the discharging steam provided the bird with motive power.

Questions 7-10		
From the information in the text, indicate who <b>FIRST</b> invented or used the items in the list below.		
Choose the appropriate letters A-E in boxes 7-10 below.		
NB You may use any letter more than once.		
Example Ans	wer	
rockets for displays A		
7 black powder 🕶		
8 rocket-propelled arrows for fighting 🔍		
9 rockets as war weapons		
10 the rocket launcher		
FIRST invented or used by		
A the Chinese		
<b>B</b> the Indians		
C the British		
<b>D</b> the Arabs		
E the Americans		

**D.** The invention of rockets is linked inextricably with the invention of '07 black powder'. 03 Most historians of technology credit the Chinese with its discovery. They base their belief on studies of Chinese writings or on the notebooks of early Europeans who settled in or made long visits to China to study its history and civilisation. It is probable that, sometime in the tenth century, black powder was first compounded from its basic ingredients of saltpetre, charcoal, and sulphur. But this does not mean that it was immediately used to propel rockets. By the thirteenth century, <sub>08</sub> powder-propelled fire arrows had become rather common. The Chinese relied on this type of technological development to produce incendiary projectiles of many sorts, explosive grenades, and possibly cannons to repel their enemies. One such weapon was the 'basket of fire' or, as directly translated from Chinese, the 'arrows like flying leopards'. Q11 The 0.7 metre-long arrows, each with a long tube of gunpowder attached near the point of each arrow, could be fired from a long, octagonal-shaped basket at the same time and had a range of 400 paces. Another weapon was the 'arrow as am flying sabre', which could be fired from crossbows. The rocket, placed in a similar position to other rocket-propelled arrows, was designed to increase the range. A small iron weight was attached to the 1.5m bamboo shaft, just below the feathers, to increase the arrow's stability by moving the centre of gravity to a position below the rocket. At a similar time, 012 the Arabs had developed the 'egg which moves and burns'. This 'egg' was apparently full of gunpowder and stabilised by a 1.5m tail. It was fired using two rockets attached to either side of this tail.

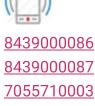


E. It was not until the eighteenth century that Europe became seriously interested in the possibilities of Q4&9 using the rocket itself as a weapon of war and not just to propel other weapons. Prior to this, rockets were used only in pyrotechnic displays. The incentive for the more aggressive use of rockets came not from within the European continent but from far-away India, whose leaders had built up a corps of rocketeers and used rockets successfully against the British in the late eighteenth century. Q13 The Indian rockets used against the British were described by a British Captain serving in India as 'an iron envelope about 200 millimetres long and 40 millimetres in diameter with sharp points at the top and a 3m-long bamboo guiding stick. In the early nineteenth century, the British began to experiment with incendiary barrage rockets. Q14 The British rocket differed from the Indian version in that it was completely encased in a stout, iron cylinder, terminating in a conical head, measuring one metre in diameter and having a stick almost five metres long and constructed in such a way that it could be firmly attached to the body of the rocket. Q10 The Americans developed a rocket, complete with its own launcher, to use against the Mexicans in the mid-nineteenth century. A long cylindrical tube was propped up by two sticks and fastened to the top of the launcher, thereby allowing the rockets to be inserted and lit from the other end. However, the results were sometimes not that impressive as the behaviour of the rockets in flight was less than predictable. F. Q6 Since then, there have been huge developments in rocket technology, often with devastating results in the

forum of war. Nevertheless, the modern day space programs owe their success to the humble beginnings of those in previous centuries who developed the foundations of the reaction principle. Who knows what it will be like in the future?

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