



READING PASSAGE 1

You should spend about 20 minutes on **Questions 1-13**, which are based on Reading Passage 1 on page 2 and 3.

BUILDING A CASTLE

Guédelon is no ordinary building site. There is no **rumble of diggers** or shriek of circular **saws**. All is **peaceful and quiet**, save for the continual tapping of the small army of **stonemasons**, the quacking of the **ducks** or the occasional **crow of the cockerel**. Slowly but surely, a brand new medieval castle is rising from the **woods of Guédelon**, Yonne, home to the Burgundy vineyards in the heart of France. The **year is 1229** that is, for the purposes of this project: to **build a prince's 'château fort'** using only the **techniques and tools of the 13th century**.

'The project has four **main aims**,' explains **Macyline Martin**, managing director for Guédelon. 'The first is **experimental archaeology** – to try and verify all the theories, based on **documents of the time**. There's also a **social aim**, because this region is very poor, with high unemployment: so **it provides jobs**. Then there's **tourism**: the project couldn't work without visitors because a lot of money is needed to pay people working here and to run the site. **And finally, we want to open experimental archaeology to everybody** – because in France, history and architecture are still very much oriented to academics.' **1**

The idea for the project emerged about five years ago. It was the brainchild of Michel Guyot, who bought and renovated the nearby castle of Saint-Fargeau, which was built and rebuilt between the 10th and 18th centuries. Beneath his castle were the original foundations of the 13th-century building. **Guyot thought it would be fun to construct a château to the same plans, but this proved too big to attempt**. So Jacques Moulin, managing director for the **local historical monuments**, drew up plans for a smaller castle that would still **be ambitious, but realistic**. Five months later, having managed to get together **600,000 Euros in funding**, they began looking for a site that would provide all the materials they needed: **stone, water, sand, wood, iron and clay**. They found it at Guédelon. **2**

The only major cheat so far was early on when a mechanical earthmover was brought in to **raise the castle floor**. Archaeologists know how it was done in the 13th century: by **backbreaking, tedious work**. 'To do it by hand would have added ten years to the project,' says Franck, one of the site's guides. It's still a **long, painstaking task**. Next to the beginnings of the east wall is the **quarry**, where **masons extract the ferruginous limestone** to build the thick castle walls. They bore lines of holes **8,9** into the rocks and then **they hammer metal wedges into them until the rock splits along the line 10,11**. It is then **hewn into bricks**, and cemented together with a mortar of chalk, sand and quicklime. Quicklime is made by heating limestone to 800°C – done off-site because of the **poisonous gases that come from the process**. Little wonder that 13th-century lime-burners had a life expectancy of only 25-30 years. **3** 'The bricks are laid horizontally for the first metre of the wall, and vertically thereafter,' says Franck, 'because if there was a shock from, say, a catapult, and the stones were all laid in the same way, the shockwave would shatter the wall.' **4**



The scientists and craftspeople alike are learning on the job, as they don't know exactly why or how things were done as the historical evidence suggests. One such discovery significance of the marks that masons carved into each finished stone. It was thought that these probably had superstitious meaning, but experience and archaeological research reveals three very practical uses: to establish how much each mason should be paid; to keep track of who made what, in case of any problems; and to specify where the stone should be placed in the castle reconstruction.

Guédelon has scientific committee of archaeologists that discusses ideas and problems as they emerge, and will approve works and practices only when its members are sure that they are true to the 13th century. Reaching unanimity is not always easy. 'All the big plans for the castle itself all done but the details aren't settled,' says Martin. 'So, during the winter, the site manager and I visit other castles in the region. When we see something we want to do here, we draw a sketch, make plans and show this to the committee.'

The castle will take at least a decade longer to build than it would have in the 13th century. 'With the same number of workers it would have taken 15 years then,' says Franck. 'But we could do this too if we had only professional workers, if the site wasn't open to the public and if we worked harder – today it's illegal to work more than 8 hours a day, as they did at the time.'

Workers come and go but at any one time about 40 people are working on the site. Some are students, others have 'downshifted' from other careers, others are local unemployed people learning skills they might use elsewhere – say, in château restorations around France. They are trained on the site as the need arises, and in the winter they may be trained in modern techniques as part of Guédelon's social remit.

So, indeed, what will happen when Guédelon's magical-looking castle is complete? They might build houses around it; perhaps villages may develop, testing out 13th-century agricultural techniques. If they can build this castle, anything seems possible.



Questions 1 – 4

Do the following statements agree with the information given in Reading Passage 1

In boxes 1-4 on your answer sheet, write

TRUE if the statement agrees with the information
FALSE if the statement contradicts the information
NOT GIVEN if there is no information on this

1. One of the reasons for building the castle is to make history more accessible to the general public. **TRUE**
2. Guyot was reluctant to abandon his original idea in favour of a more realistic project. **NOT GIVEN**
3. The lime-burners did not live long because their bodies were damaged by the extreme heat. **FALSE**
4. The bricks used to be laid in different ways to lessen the impact of an attack. **TRUE**

Questions 5 – 7

*Choose **THREE** letters, **A-H**.*

Write the correct letters in boxes 5-7 on your answer sheet.

The list below gives reasons why the castle may be taking a long time to build.

*Which **THREE** reasons are mentioned by the writer of the text?*

- A** the reluctance of workers to commit themselves to the project
- B** the lengthy training programmes the workers have to do
- C** having to abide by modern employment regulations
- D** the inability of committee members to reach any decisions
- E** tourists who come and visit the site
- F** the number of unskilled workers employed
- G** having to do everything by hand
- H** the difficulty of finding authentic raw materials



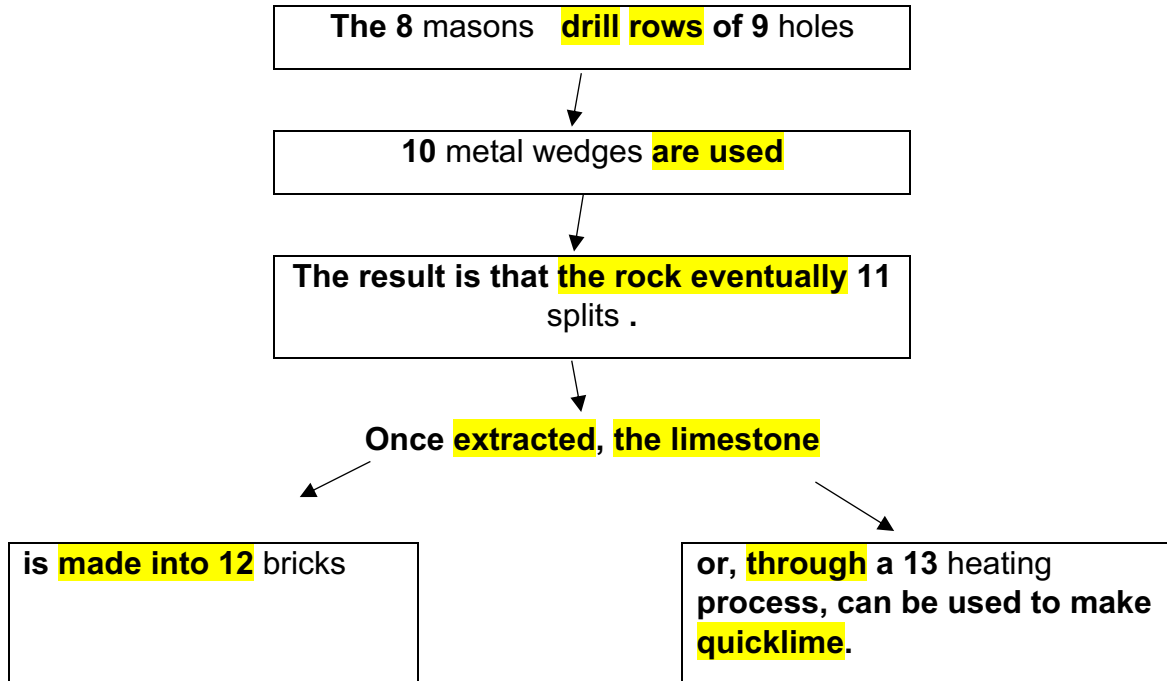
Questions 8 – 13

Complete the flow-chart below.

Choose **NO MORE THAN TWO WORDS** from the passage for each answer.

Write your answers in boxes 8-13 on your answer sheet.

How the limestone is extracted and used



Words in question	Similar words in the passage
1 make accesible to the general public	Open to everyone
3 extereme heat	(cont) poisonous gases
4 lay in different ways	Horizontally and vertically
5 having to abide by modern employment regualtions	It is illegal to work more than 8 hours
6 toursits come and visit the site	The site wasn't open to the publi
7 the number of unskilled workers	If we had only professional workers
8,9 masons drill rows of holes	They bore lines of holes