



TALLER DE IDIOMAS METODO CLIL
FINAL TEST – OCTOBER 2020

STUDENT'S NAME: _____

DATE: _____

CAREER: CIVIL ENGINEERING

READING COMPREHENSION:

1. Activity 1: Scan the text and complete.

ScienceDaily

Your source for the latest research news

Web address: <http://www.sciencedaily.com/releases/2009/10/091029161253.htm>

Liquid Granite: Building Material Of The Future Unveiled

ScienceDaily (Nov. 4, 2009) — Scientists have developed a new building material that is fire resistant to temperatures in excess of 1100 degrees Celsius, is made largely from recycled material and is as versatile as concrete.

Liquid Granite offers a real **breakthrough** in reducing fire risk in buildings as, unlike concrete, it doesn't (5)explode at high temperatures. It can also withstand high temperatures for longer periods, offering valuable minutes in the case of a fire.

The material is made up of between 30 and 70 per cent recycled material, mainly base products from industry. It uses less than one third of the cement used in precast concrete, which also reduces its carbon footprint.

(10) The product was developed at Sheffield Hallam University and is available from Liquid Granite Ltd. The new material is being used by a number of organizations in building projects as it has a four hour fire rating, meaning that it provides the top level of protection in the case of a fire.

Professor Pal Mangat is the Director of the Centre of Infrastructure Management at Sheffield Hallam University and developed Liquid Granite. He explains, "Liquid Granite is a very versatile material that can be (15) used in a similar way to concrete. The fact it has a high level of fire resistance means that it can be used in areas where fire safety is crucial, such as around power stations, and in domestic and commercial buildings can offer added time for evacuation in case of an emergency.

"The product replaces most of the cement in standard concrete with a secret formula of products to change the basic properties of the material. I believe it has great potential for the future." Bob Richards from Liquid (20) Granite said, "There has already been a great deal of interest from the building industry about this product, and it has been supplied onto projects such as the Olympic Village and Stratford Shopping Centre in London in the form of fire rated lintels manufactured by King Stone Products'. It will really make a difference to the safety of our buildings and could potentially save lives."

Story Source:

The above story is reprinted (with editorial adaptations by ScienceDaily staff) from materials provided by [Sheffield Hallam University](#), via [AlphaGalileo](#).

Retrieved January 13, 2011 from <http://www.sciencedaily.com/releases/2009/10/091029161253.htm>

GLOSSARY	
unveil: (verb) to show or tell people about a new product	
breakthrough: (noun)- a new discovery	
carbon footprint: (noun)- carbon dioxide produced by a product	
withstand: (verb)- to remain stable in the presence of heat, cold, pressure, etc.	
lintel: (noun) a piece of wood or stone across the top of a window, forming part of the frame.	

a- Article's title:	
b- Article's topic:	
c- Date of publication:	
d- Source of publication:	
e- Summary of story (line numbers):	

Activity 2: Are the following questions answered by the text? If your answer is YES, match the questions to the parts of the text where they are answered.

Question	YES (directly)	Yes (indirectly)	NO	Part of Text
a- What is this new material made of?				LINES ____ TO ____
b- Where is this product available from?				LINES ____ TO ____
c- Is this product available in South America?				LINES ____ TO ____
d- What are the advantages of this material?				LINES ____ TO ____
e- Where can this material be very effective?				LINES ____ TO ____
f- Is liquid granite used to build football stadiums?				LINES ____ TO ____
g- Do environmentalists approve of the use of this material?				LINES ____ TO ____
h- How much cement does this material use?				LINES ____ TO ____

Activity 3: Choose the best option:

1- Researchers...

- a. ...are developing a new material.
- b. ...have worked on and produced a new material.
- c. ...work on a new material every year.

2- In today's construction industry,

- a. ...strengthening materials are needed;
- b. ...strong and fire resistant materials are needed;
- c. ...fireproof and waterproof materials are needed.

3- The word "breakthrough" (noun) on line 4 means...

- a. ...discovery.
- b. ...equipment.
- c. ...method.

4- The best equivalent for “...Liquid Granite offers a real breakthrough in reducing fire risk in buildings as, unlike concrete, it doesn’t explode at high temperatures. (lines 4 -5) is....

- a. ...Liquid Granite is a real breakthrough in the reduction of fire risk in building construction.
- b. ...Liquid Granite is a real breakthrough because it reduces fire risk in building construction.
- c. ...Liquid Granite is a real breakthrough because has reduced fire risk in building construction.

5- This new material is important because it is good at....

- a. ...reducing fire risks.
- b. ...reducing building costs.
- c. ...building fire structures at a lower cost.

6- Because liquid granite uses less cement, there is

- a. ...reduction in carbon dioxide intake.
- b. ...carbon footprint reduction.
- c. ...higher carbon footprint.

7- A number of organizations...

- a. ...are using liquid granite in their building projects.
- b. ...have used liquid granite in their building projects.
- c. ...use liquid granite in their building projects.

8- Liquid granite is...

- a. ...as fire resistant as concrete.
- b. ...more fire resistant than concrete.
- c. ...less fire resistant than concrete.

Activity 4: Are the following statements TRUE or FALSE?

- a- Liquid granite is an environmentally friendly building material. _____
- b- Many organizations are using this material at the moment. _____
- c- Researchers have been working with this new material for 50 years now. _____
- d- In case of a fire, this new material has a four hour rating. _____
- e- The reduction of carbon-dioxide emission is an advantage in using this material. _____

Activity 5: In the statements above, what is the function of the -ing form?

FORMA-ING	SUSTANTIVO	ADJETIVO	PREPOSICIÓN + AR,ER,IR	PARTE DE FRASE VERBAL CONJUGADA
a- building				
b- using				
c- working				
d- rating				
e- using				

Activity 6: Where do you find.... WRITE the lines where you can find this exact information in the text.

- a- ...a definition of Liquid Granite? Lines _____
- b- ...information about the person responsible for the Liquid Granite project at Sheffield Hallam University? Lines _____
- c- ... what is Liquid Granite made of? Lines _____
- d- ... the percentage of cement used by Liquid Granite? Lines _____
- e- ... the uses of Liquid Granite. Lines _____

Activity 7: What have you learned about liquid granite? Write a summary (50 – 80 words)

