

### DEFINITION OF COMPOSITES AND CONCRETE

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'COMPOSITE MATERIALS' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF [www.technologystudent.com](http://www.technologystudent.com)

**LINK**

[http://www.technologystudent.com/mobapps/COMPOSITES\\_MOBILE1.pdf](http://www.technologystudent.com/mobapps/COMPOSITES_MOBILE1.pdf)

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**ARE YOU READY?  
USE THE MOBILE App!!**

1

WRITE A DEFINITION OF COMPOSITE MATERIALS.

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2

SOME PEOPLE REGARD NATURAL WOOD AS A COMPOSITE MATERIAL. WHY IS THAT?

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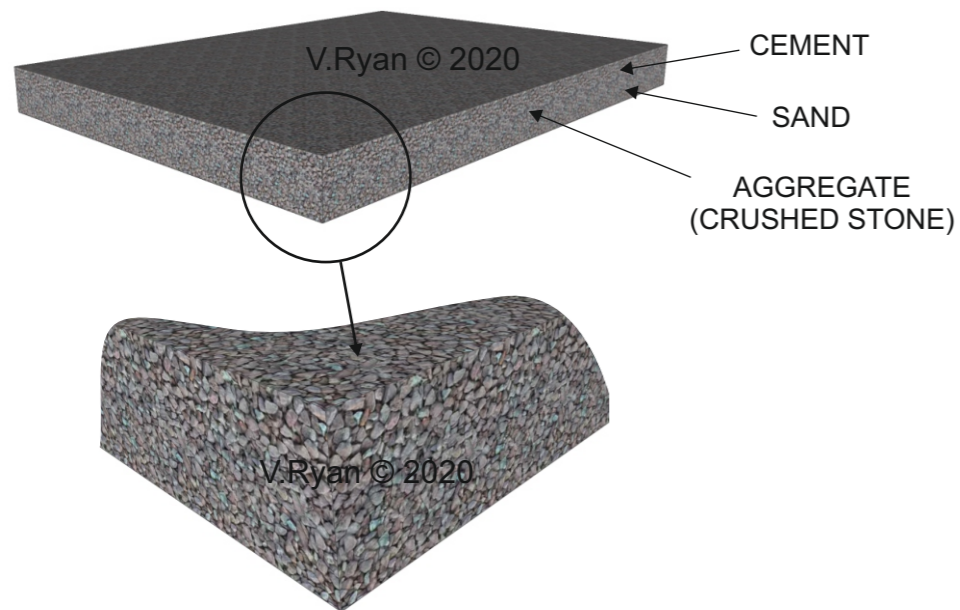
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3

USING THE DIAGRAM SHOWING THE STRUCTURE OF CONCRETE, AS A REFERENCE, EXPLAIN WHY CONCRETE IS A GOOD EXAMPLE OF A COMPOSITE MATERIAL.



WRITE YOUR ANSWER HERE.

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4

LIST TYPICAL USES OF CONCRETE.

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HELPFUL LINK: [http://www.technologystudent.com/mobapps/COMPOSITES\\_MOBILE1.pdf](http://www.technologystudent.com/mobapps/COMPOSITES_MOBILE1.pdf)


**CONCRETE AND REINFORCED CONCRETE**

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1

**DRAW A DIAGRAM THAT SHOWS THE COMPRESSIVE STRENGTH OF CONCRETE.**



**WRITE AN EXPLANATION / DESCRIPTION OF YOUR DIAGRAM.**

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2

**WHAT IS REINFORCED CONCRETE? WHY IS IT USED BY THE CONSTRUCTION INDUSTRY?** *Include a reference to tensile strength.*  
Draw a diagram representing reinforced concrete in the next box.



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**YOUR DIAGRAM OF REINFORCED CONCRETE**

3

**PASTE TWO IMAGES THAT SHOW THE USE OF REINFORCED CONCRETE.**

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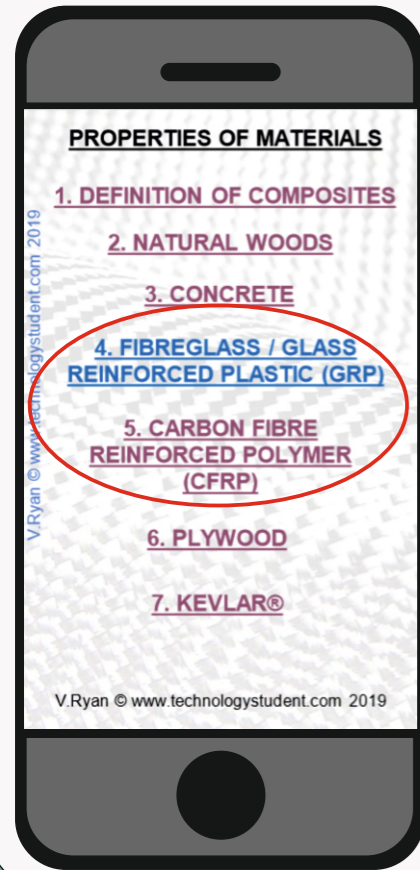
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## GRP and CFRP



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1

WHO INVENTED GRP AND IN WHAT YEAR?

DESCRIBE THE NATURE / STRUCTURE OF GRP

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PASTE AN IMAGE OF GRP, THAT SHOWS ITS 'WEAVED' NATURE.

2

PASTE IMAGES OF GRP PRODUCTS, IN THE SPACE BELOW. ADD LABELS TO EACH IMAGE.

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WHAT IS CARBON FIBRE REINFORCED PLASTIC (CFRP)?

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LIST PRODUCTS / COMPONENTS MANUFACTURED FROM CFRP.

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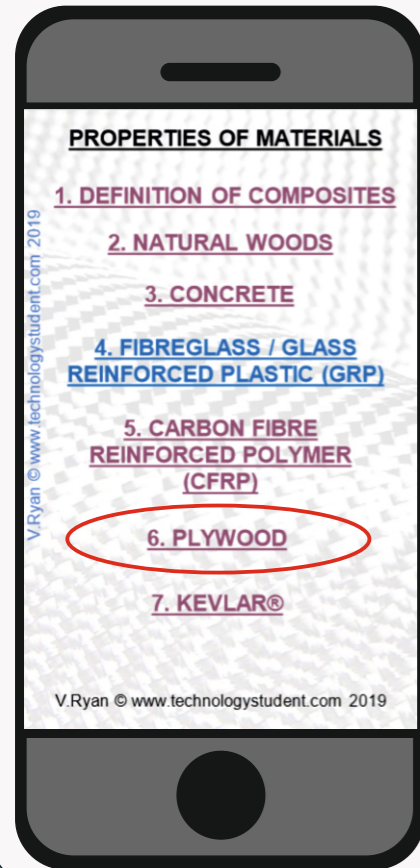
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### PLYWOOD



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1

#### WHY IS PLYWOOD REGARDED AS A COMPOSITE MATERIAL?

Support your answer with a sketch in the next box.

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#### YOUR LABELLED DIAGRAM OF PLYWOOD.

2

#### DESCRIBE HOW AND WHY PLYWOOD WAS USED IN THE FAMOUS EAMES LOUNGE CHAIR (INTRODUCED 1956).

Write your answer in the next box.



#### YOUR WRITTEN ANSWER.

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#### LIST OTHER PRACTICAL APPLICATIONS OF PLYWOOD.

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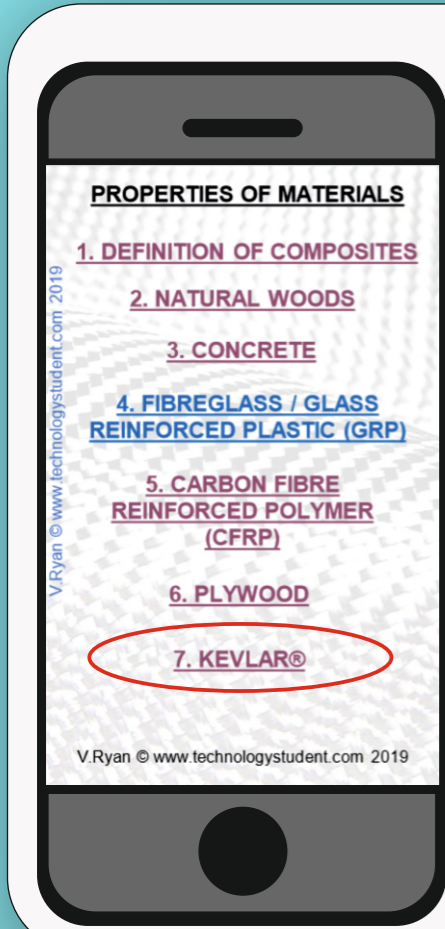
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### FIBREGLASS / GLASS REINFORCED PLASTIC (GRP)

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WHAT IS KEVLAR® ?  
INCLUDE SOME OF ITS PROPERTES.

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2

LIST PRODUCTS / COMPONENTS  
MANUFACTURED FROM KEVLAR® .

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3

HOW DOES THE AUTOMOTIVE  
INDUSTRY USE KEVLAR® ?

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4

PASTE / GLUE IMAGES OF AT LEAST FOUR PRODUCTS / COMPONENTS, THAT ARE  
MANUFACTURED FROM KEVLAR®

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