

STRUCTURES

TO ANSWER ALL THE QUESTIONS YOU WILL NEED TO DOWNLOAD THE 'STRUCTURES' APP, FROM THE INTERACTIVE MOBILE APP SECTION OF www.technologystudent.com

LINK

<https://www.technologystudent.com/mobapps/structures1.pdf>

Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research / complete answers to all the questions.

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

1

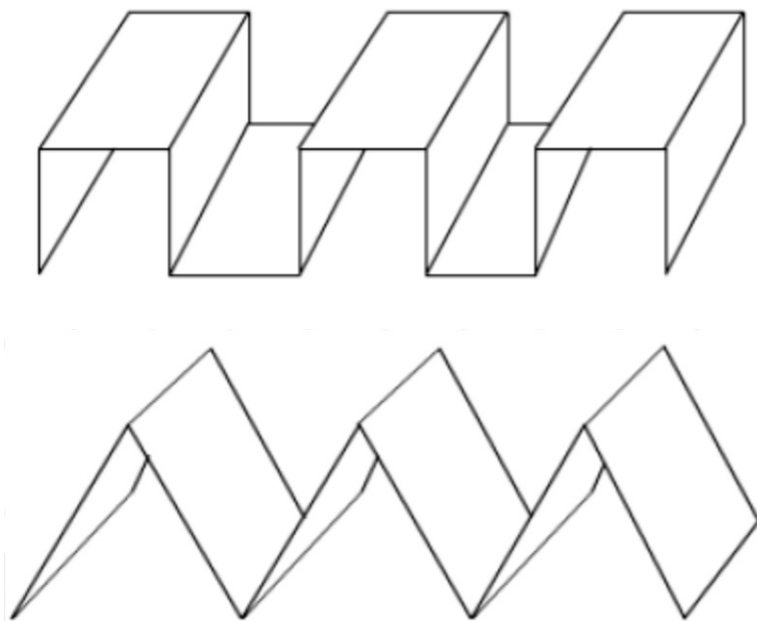
TWO FRAME STRUCTURES ARE SHOWN BELOW. IN THE NEXT BOX, PASTE TO MORE EXAMPLES OF FRAME STRUCTURES.



TWO MORE FRAME STRUCTURE EXAMPLES:

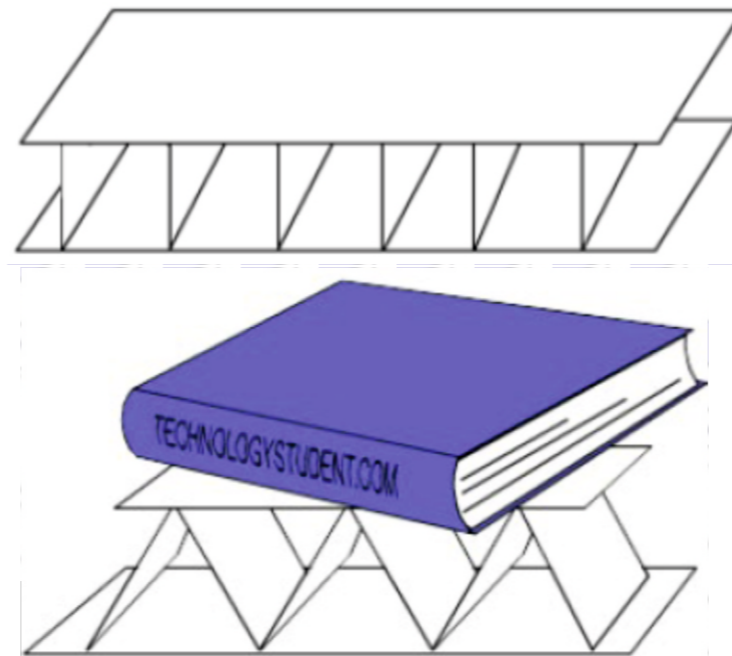
2

MAKE THE SQUARE AND TRIANGULATED FRAMES SEEN BELOW, FROM CARD. WHICH IS THE STRONGEST? Place a 'tick' next to the strongest.



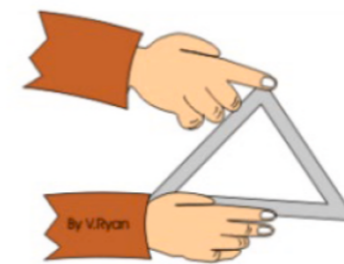
3

NOW GLUE CARD ON THE TOP AND BOTTOM. TEST AGAIN.

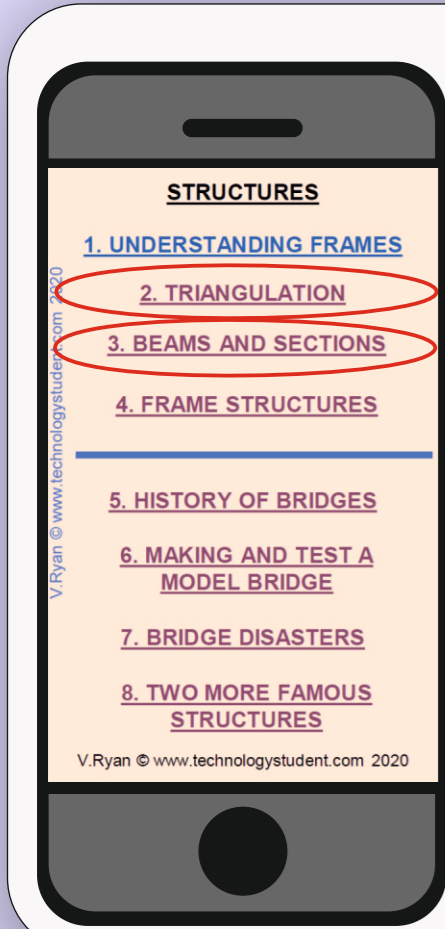


4

WHY IS 'TRIANGULATION' POPULAR IN THE CONSTRUCTION OF BUILDINGS AND OTHER STRUCTURES?.



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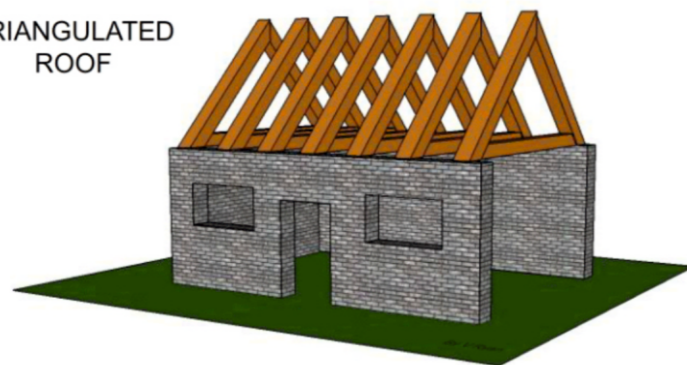
NAME THE FAMOUS STRUCTURE SEEN OPPOSITE. WRITE SOME FACTS BELOW, ABOUT THIS STRUCTURE.



2

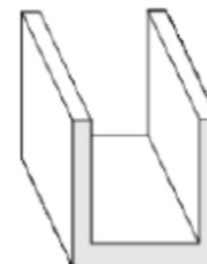
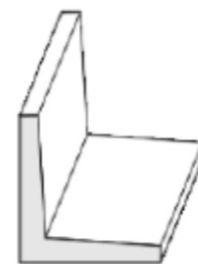
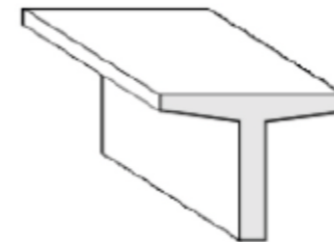
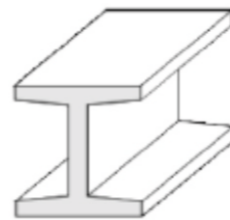
WHY IS THE ROOF OF THIS BUILDING SUPPORTED BY A TRIANGULATED STRUCTURE?

TRIANGULATED ROOF



3

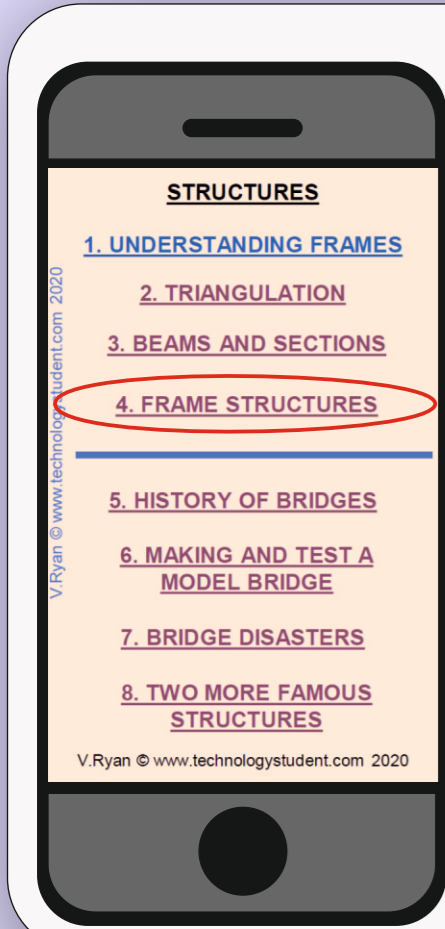
NAME EACH OF THESE BEAM SECTIONS.



4

HOW AND WHY ARE BEAMS, SUCH AS THOSE SEEN IN BOX 3, USED IN THE CONSTRUCTION OF BUILDINGS?

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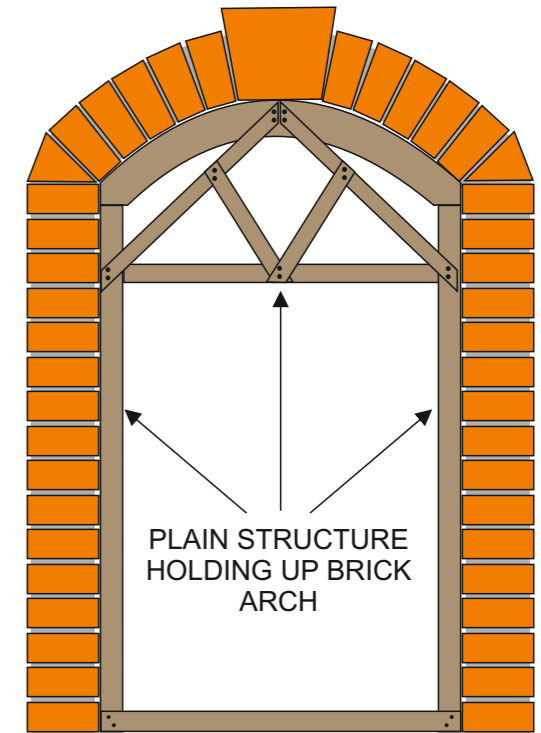
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1

EXPLAIN WHY THE FRAME SHOWN OPPOSITE, IS CALLED A 'PLAIN FRAME'.



2

THIS IS AN EXAMPLE OF A 'STRUCTURAL FRAME'.
WHAT IS A STRUCTURAL FRAME?
Make reference to the example shown below.

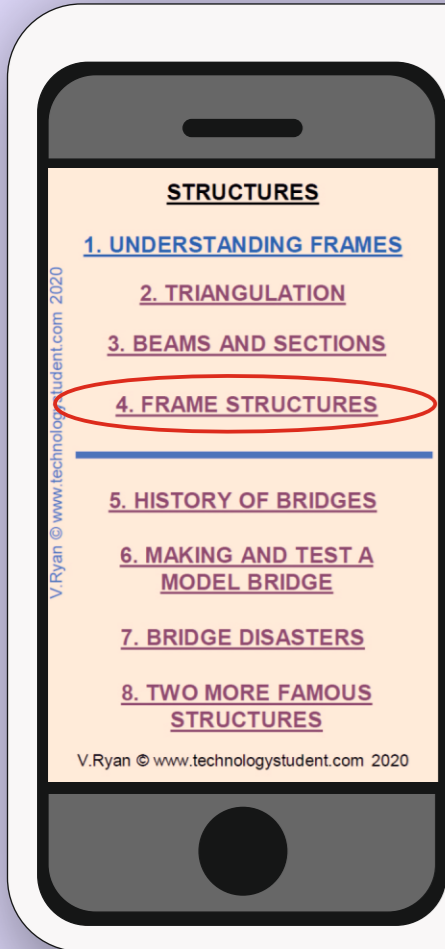


YOUR ANSWER.

3

WHAT IS A SPACE FRAME STRUCTURE?
Name and describe an example of this type of structure.

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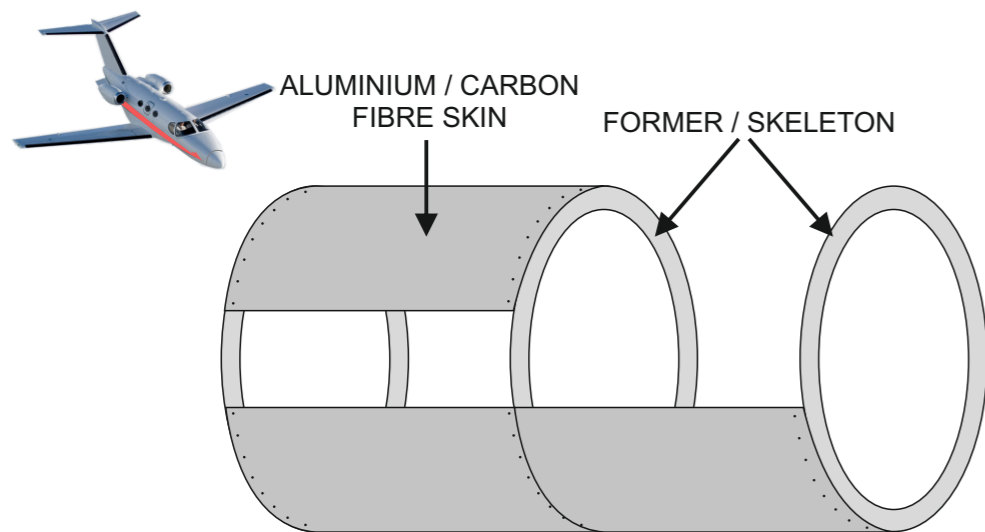
WHAT IS A 'MONOCOQUE' STRUCTURE?
Make reference to the example shown in the next box.

FORMULA ONE - RACING CARS
MONOCOQUE BODY WORK



2

HERE IS A 'SEMI-MONOCOQUE' STRUCTURE.
With reference to the image, explain why it is regarded as 'semi-monocoque'.

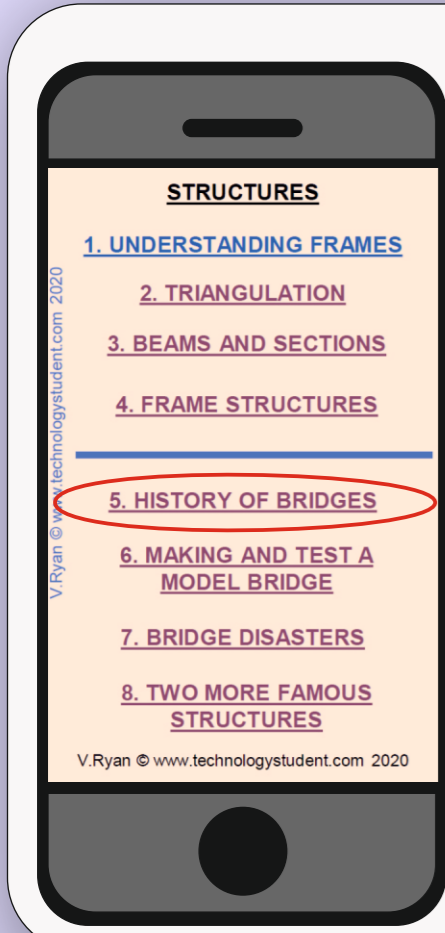


YOUR ANSWER.

3

USE THE INTERNET TO FIND AN IMAGE OF ANOTHER MONOCOQUE and ALSO A SEMI-MONOCOQUE PRODUCT
Paste and label in the space below.

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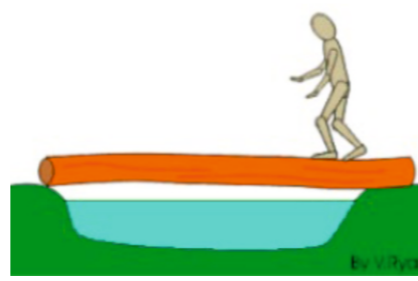
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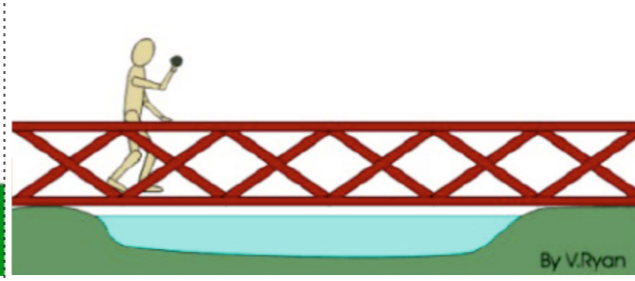
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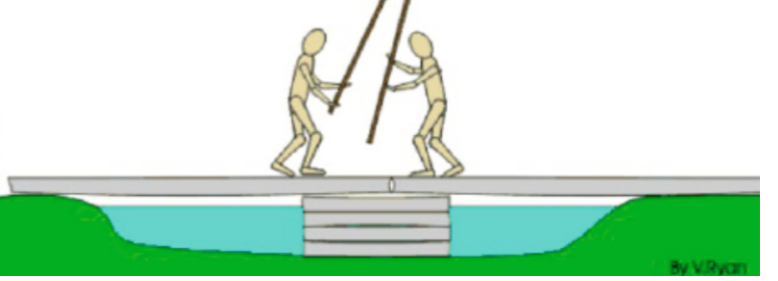
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1

NAME THESE THREE EARLY TYPES OF BRIDGES

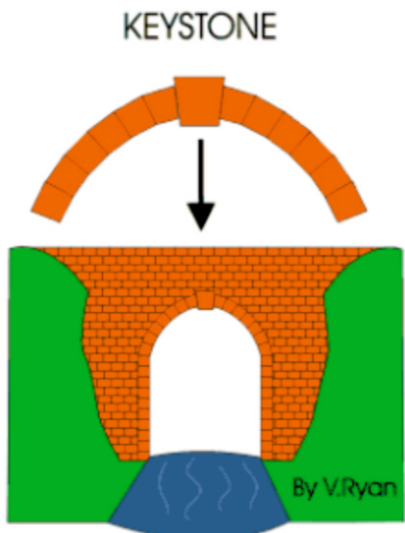






2

WHY IS THE KEY STONE OF A STONE ARCH BRIDGE, VERY IMPORTANT?



YOUR ANSWER.

3

NAME THIS IMPRESSIVE, ROMAN, STONE ARCH BRIDGE. INCLUDE LOCATION.

NAME: _____

LOCATION: _____



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NAME AND WRITE SOME FACTS ABOUT THIS FAMOUS BRIDGE.



2

THIS IS THE FIRST IRON BRIDGE IN THE WORLD. WRITE SOME FACTS ABOUT IT.



YOUR ANSWER.

3

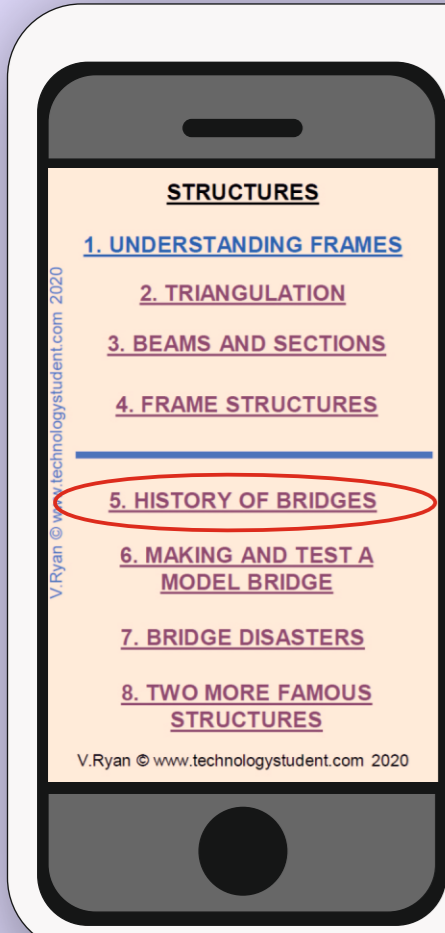
NAME THIS, STONE VIADUCT. INCLUDE LOCATION.

NAME: _____

LOCATION: _____



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NAME AND WRITE SOME FACTS ABOUT THIS SUSPENSION BRIDGE (USA).



2

THIS IS THE WORLD FAMOUS FORTH RAIL BRIDGE IN QUEENSFERRY SCOTLAND.

Write some facts about it in the next box.



YOUR ANSWER.

3

NAME THIS SUSPENSION BRIDGE.
LOCATION: Japan

NAME: _____



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