

MECHANISMS

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

LINK

https://www.technologystudent.com/mobapps/mechanisms_mobile1.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 **WHAT IS A CAM?**
(refer to the changes in motion from input to output)

2 **SKETCH A PEAR SHAPED CAM**
(Label the parts)

3 **NAME EACH OF THE CAM PROFILES SHOW BELOW**

A _____

B _____

C _____

D _____

4 **FOR PROFILES A and B IN Q3, DESCRIBE THE MOVEMENT THEY PRODUCE.**

A. _____

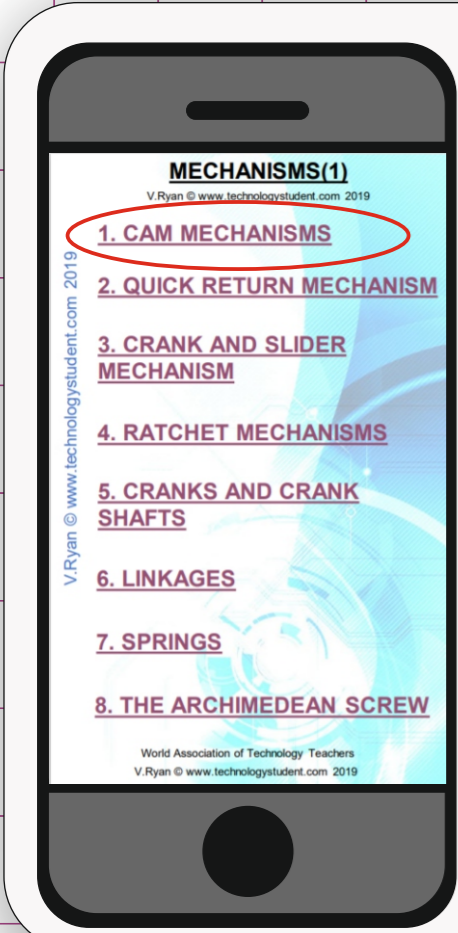
B. _____

5 **FOR PROFILES C and D IN Q3, DESCRIBE THE MOVEMENT THEY PRODUCE.**

C. _____

D. _____

HELPFUL LINK: https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf



MECHANISMS

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

LINK

https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf

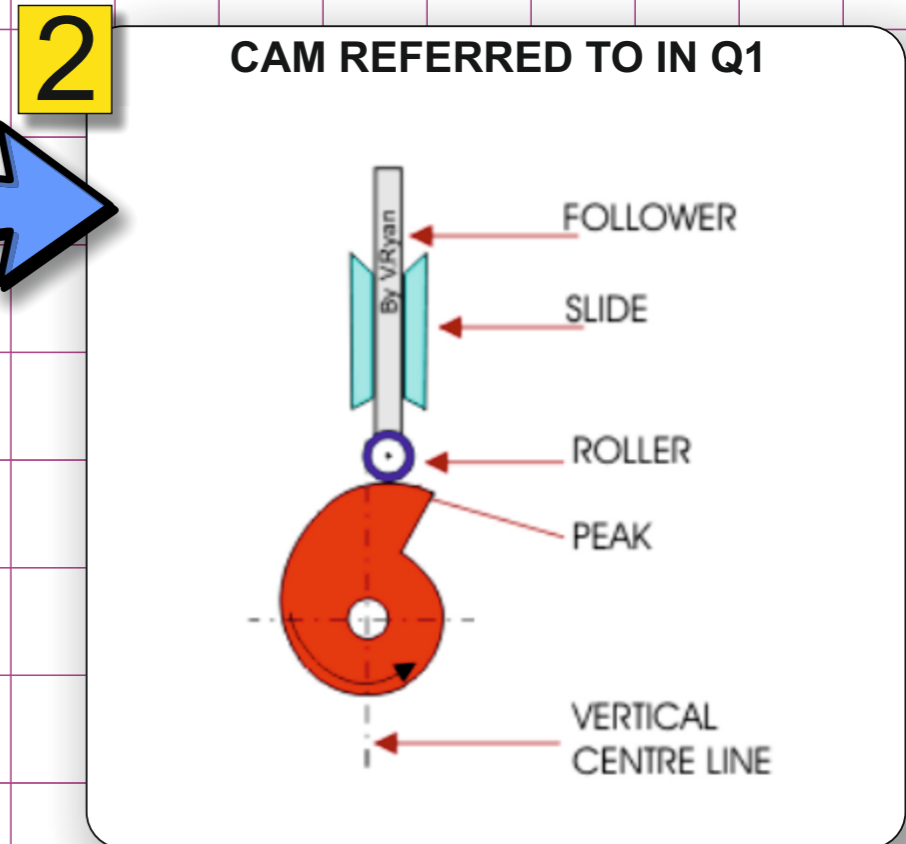
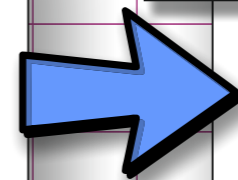
Once you have downloaded the App, you can use it to navigate the website. You may need to follow the links on each page of the App, to research / complete answers to all the questions.

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

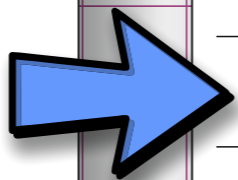
1 NAME THE CAM IN BOX 2
DESCRIBE THE MOVEMENT IT PROVIDES

Name: _____

Description: _____



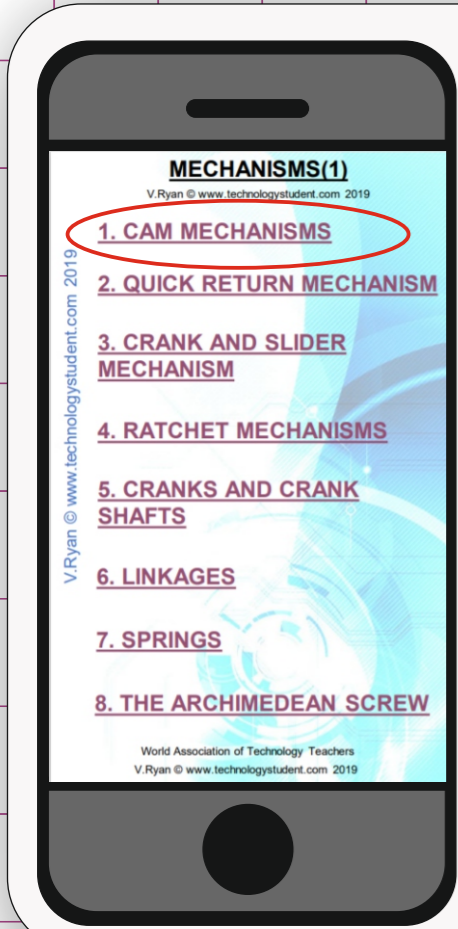
3 DRAW A TOY THAT INCLUDES THE CAM YOU NAMED IN Q1. (include labels, do not include an explanation)



4 DESCRIBE HOW YOUR CAM TOY WORKS / FUNCTIONS.

5 DESCRIBE A SWASH CAM

HELPFUL LINK: https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf



MECHANISMS

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

LINK

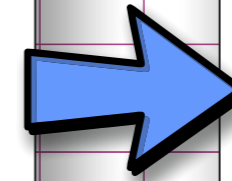
https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf

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!!**

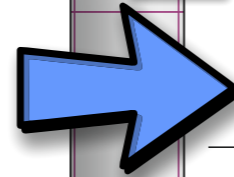
1 SKETCH A PRACTICAL APPLICATION OF A BOX CAM.
(include labels, do not include an explanation)

2 DESCRIBE / EXPLAIN THE BOX CAM APPLICATION YOU SKETCHED IN Q1

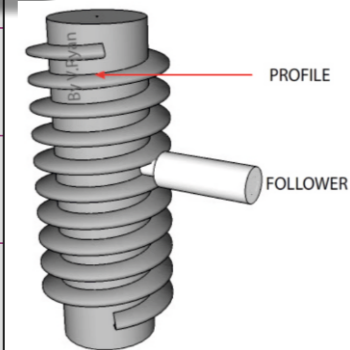


3 SKETCH A FLAT PLATE / LINEAR CAM.
(Include labels, do not include an explanation)

4 DESCRIBE HOW YOUR LINEAR CAM WORKS / FUNCTIONS.



5 NAME AND DESCRIBE THIS CAM.



HELPFUL LINK: https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf



MECHANISMS

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

LINK

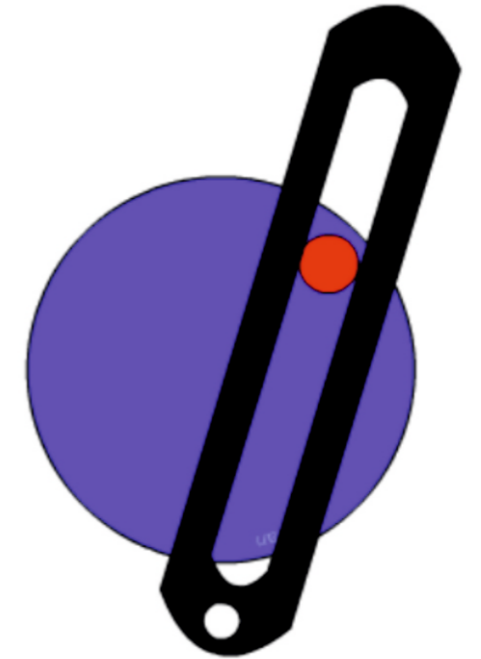
https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf

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 NAME THE MECHANISM SHOWN IN BOX 2. DESCRIBE THE INPUT AND OUTPUT MOTION.

2 MECHANISM REFERRED TO IN Q1

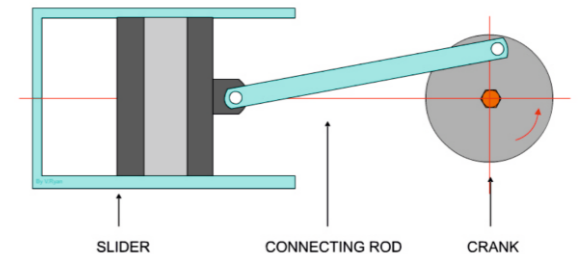


3 NAME AND SKETCH A MACHINE THAT USES THE MECHANISM IN Q1. (Do not include an explanation).

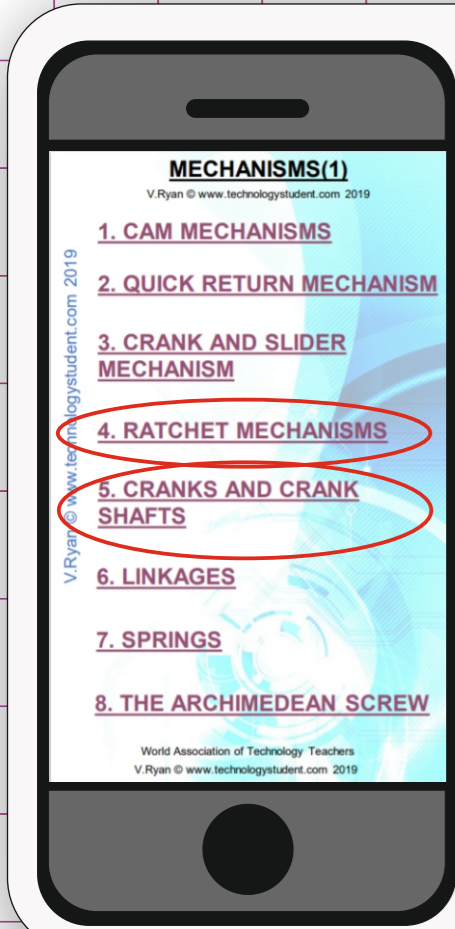
Name: _____

4 EXPLAIN HOW THE MACHINE YOU SKETCHED IN Q3, UTILISES THE MECHANISM.

5 NAME THIS MECHANISM. DESCRIBE ITS MOVEMENT



HELPFUL LINK: https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf



MECHANISMS

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

LINK

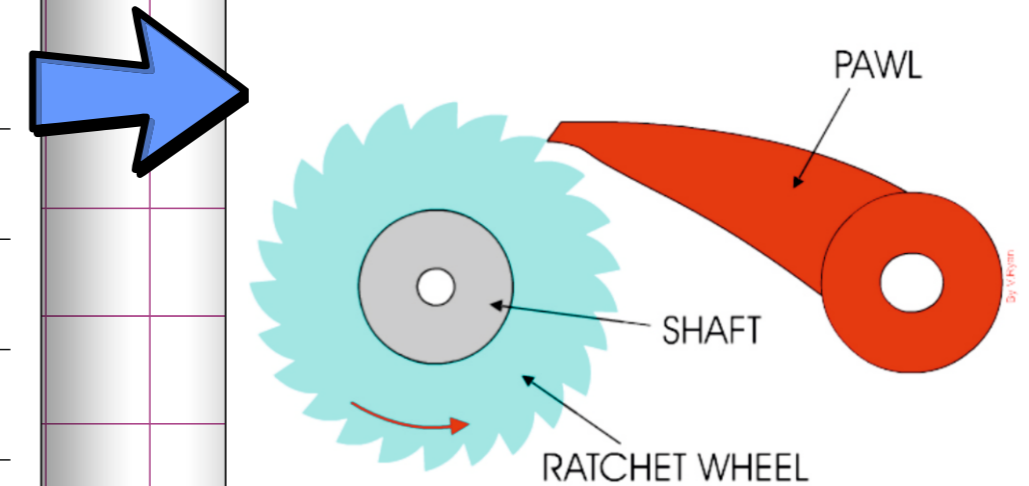
https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf

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 DESCRIBE / EXPLAIN THE RATCHET MECHANISM SEEN IN BOX 2

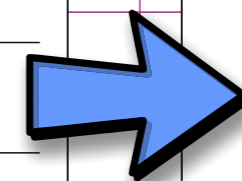
2 MECHANISM REFERRED TO IN Q1



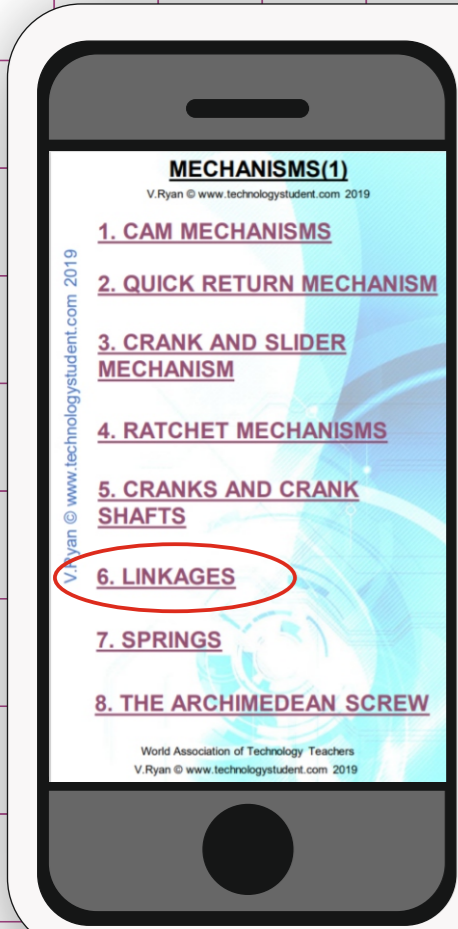
3 SKETCH AND DESCRIBE A PRACTICAL APPLICATION OF A RATCHET MECHANISM

4 WHAT IS A CRANK SHAFT? SUPPORT YOUR EXPLANATION WITH A LABELLED SKETCH IN BOX 5

5 LABELLED SKETCH SUPPORTING YOUR EXPLANATION



HELPFUL LINK: https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf



MECHANISMS

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

LINK

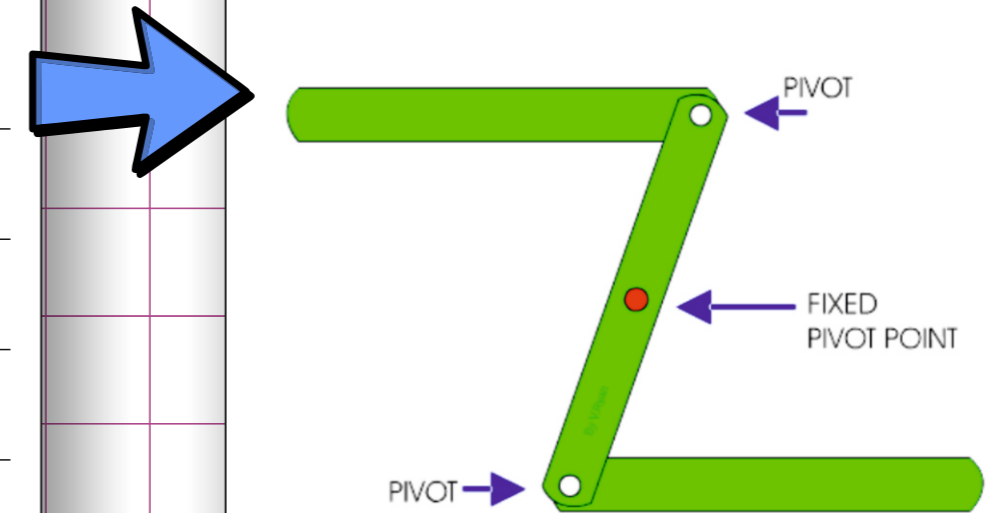
https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf

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!!**

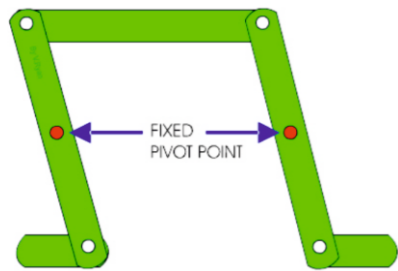
1 NAME AND DESCRIBE THE LINKAGE MECHANISM SEEN IN BOX 2

2 LINKAGE REFERRED TO IN Q1



3 THIS IS A PARALLEL MOTION LINKAGE. SKETCH AND EXPLAIN A PRACTICAL APPLICATION OF THIS LINKAGE.

YOUR SKETCH

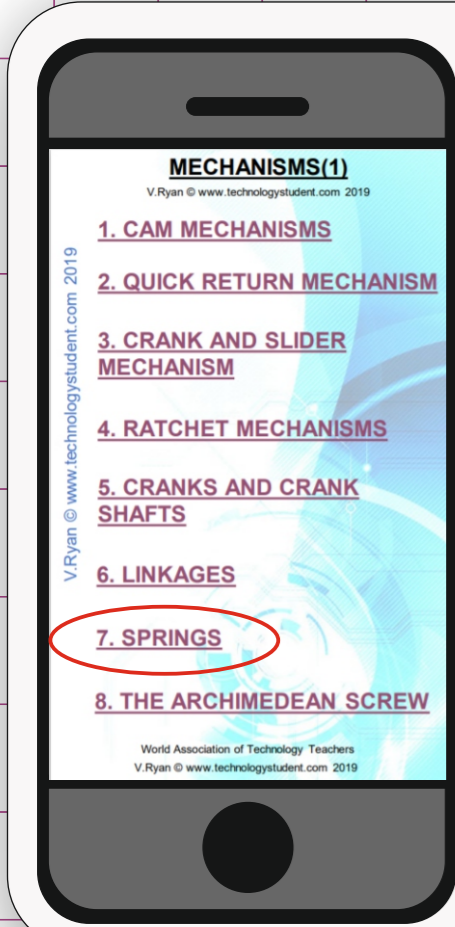


EXPLANATION:

4 SKETCH A SIMPLE DIAGRAM OF A BELL CRANK MECHANISM

5 DESCRIBE A PRACTICAL APPLICATION OF A BELL CRANK.

HELPFUL LINK: https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf



MECHANISMS

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

LINK

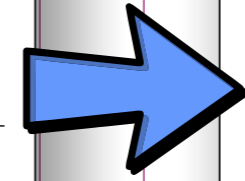
https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf

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.

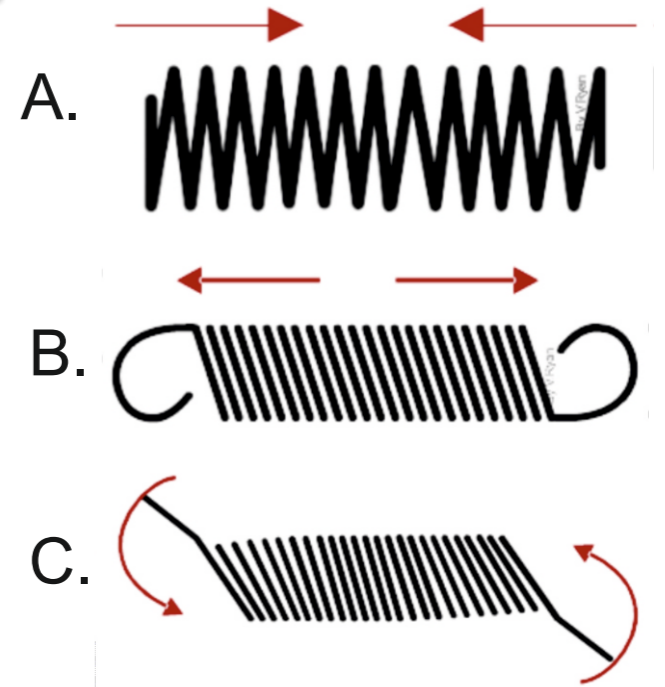
**ARE YOU READY?
USE THE MOBILE App!!**

1 NAME THE SPRINGS SHOWN IN BOX 2

- A. _____
- _____
- B. _____
- _____
- C. _____
- _____



2 LINKAGE REFERRED TO IN Q1

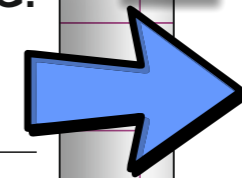


3 FOR EACH OF THE SPRINGS YOU NAMED IN Q1, DESCRIBE IT'S FUNCTION / ACTION.

- A. _____
- _____
- B. _____
- _____
- C. _____
- _____

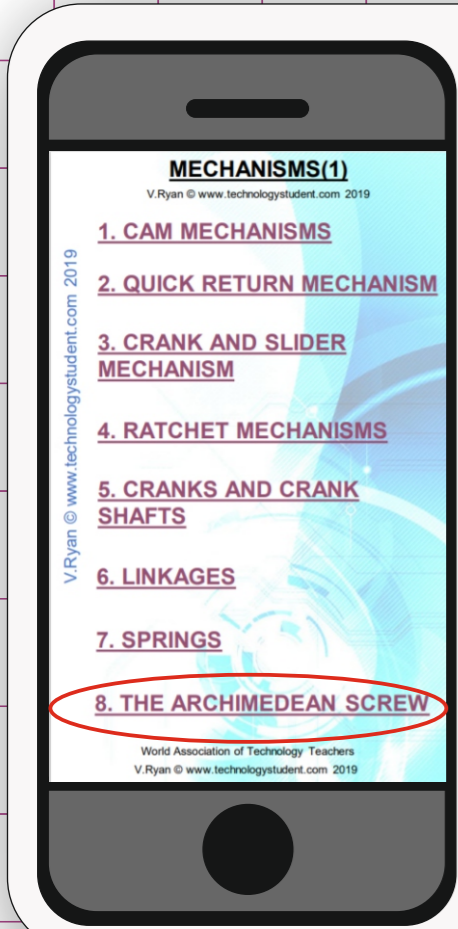
4 DESCRIBE A PRACTICAL APPLICATION OF EACH SPRING. (You may need to search the internet)

- A. _____
- _____
- B. _____
- _____
- C. _____
- _____



5 SKETCH ONE PRACTICAL APPLICATION OF A SPRING MENTIONED IN BOX 3/4

HELPFUL LINK: https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf



MECHANISMS

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

LINK

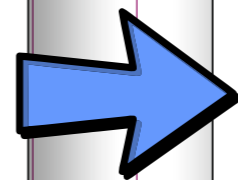
https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf

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.

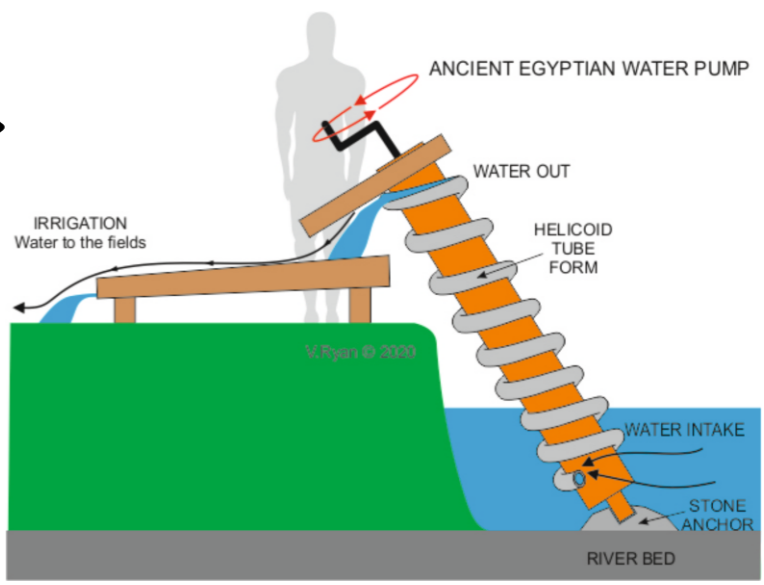
**ARE YOU READY?
USE THE MOBILE App!!**

1

DESCRIBE HOW AN EGYPTIAN WATER PUMP WORKED.
Refer to the diagram seen opposite

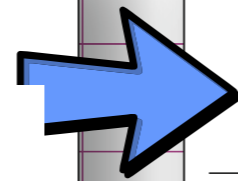
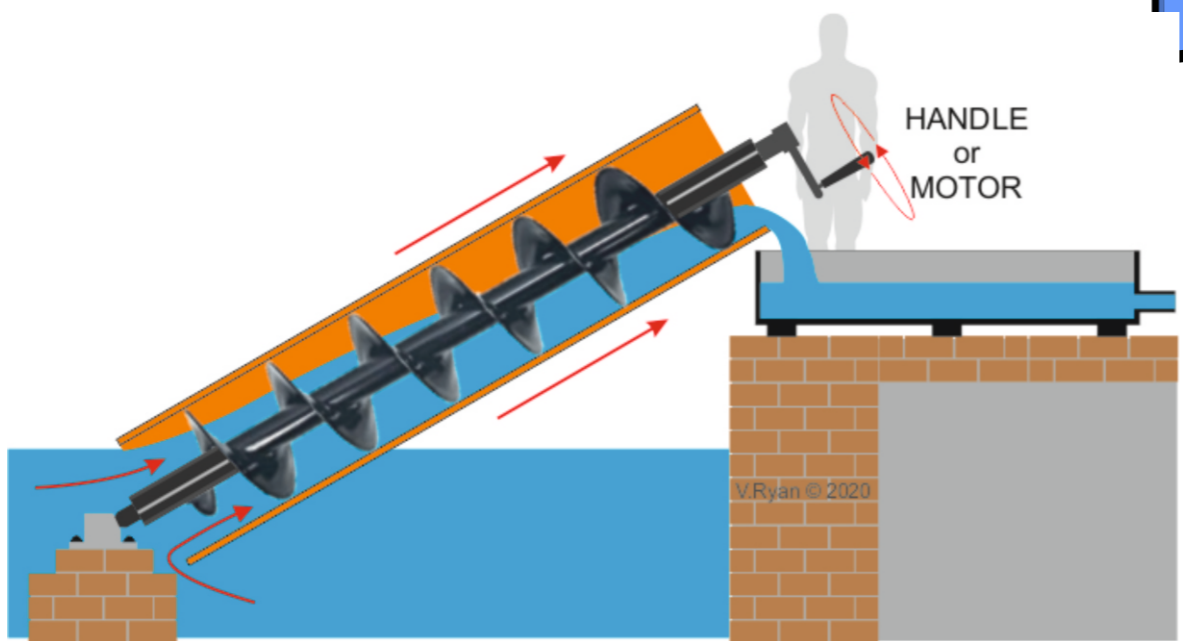


WATER PUMP REFERRED TO IN Q1



2

IN THE NEXT BOX, EXPLAIN HOW AN ARCHIMEDEAN SCREW WORKS (as seen below).



ARCHIMEDEAN SCREW
Your Explanation.

3

LIST ADVANTAGES OF USING AN ARCHIMEDEAN SCREW TO PRODUCE ELECTRICITY.

HELPFUL LINK: https://www.technologystudent.com/mobapps/mechanisms_mobile1.pdf