LEONARDO DA VINCI

Learning Objective:

To explore inventions designed by Leonardo da Vinci.

Tell the person next to you the two most interesting facts about Leonardo da Vinci.

Renaissance Man

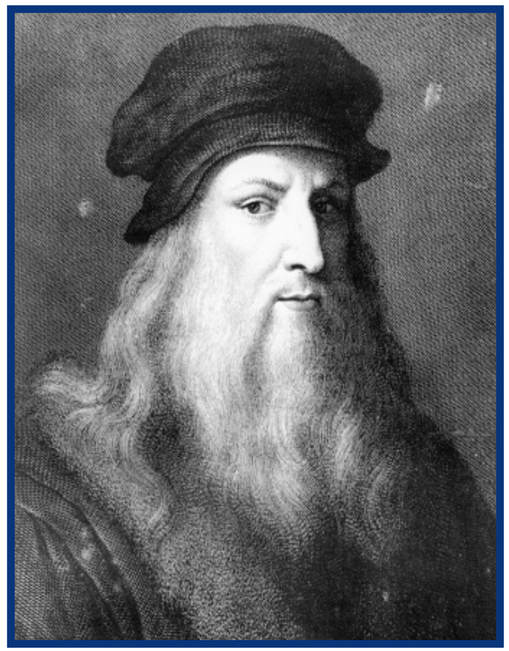
Leonardo da Vinci was called "Renaissance Man"

What does this mean?

Ahead of his time

People believed that Leonardo da Vinci was named the "Renaissance Man" because he was a man with knowledge and skills in a range of areas. He could design and produce pieces of work in many fields whereas most men in his era were only successful in one area.

It was believed that the scope and depth of his abilities was beyond any man who ever existed. He had an unimaginable determination to understand everything around him.



"I have been impressed with the urgency of doing. Knowing is not enough; we must apply. Being willing is not enough; we must do."
Leonardo da Vinci.

Leonardo's inventions

Leonardo da Vinci had a keen interest in engineering and inventing. He spent many hours designing machines and inventing gadgets to better the lives of others. Many of his inventions are still used today, however most of his ideas were lost in history and were invented again by other people.

Flying Machines

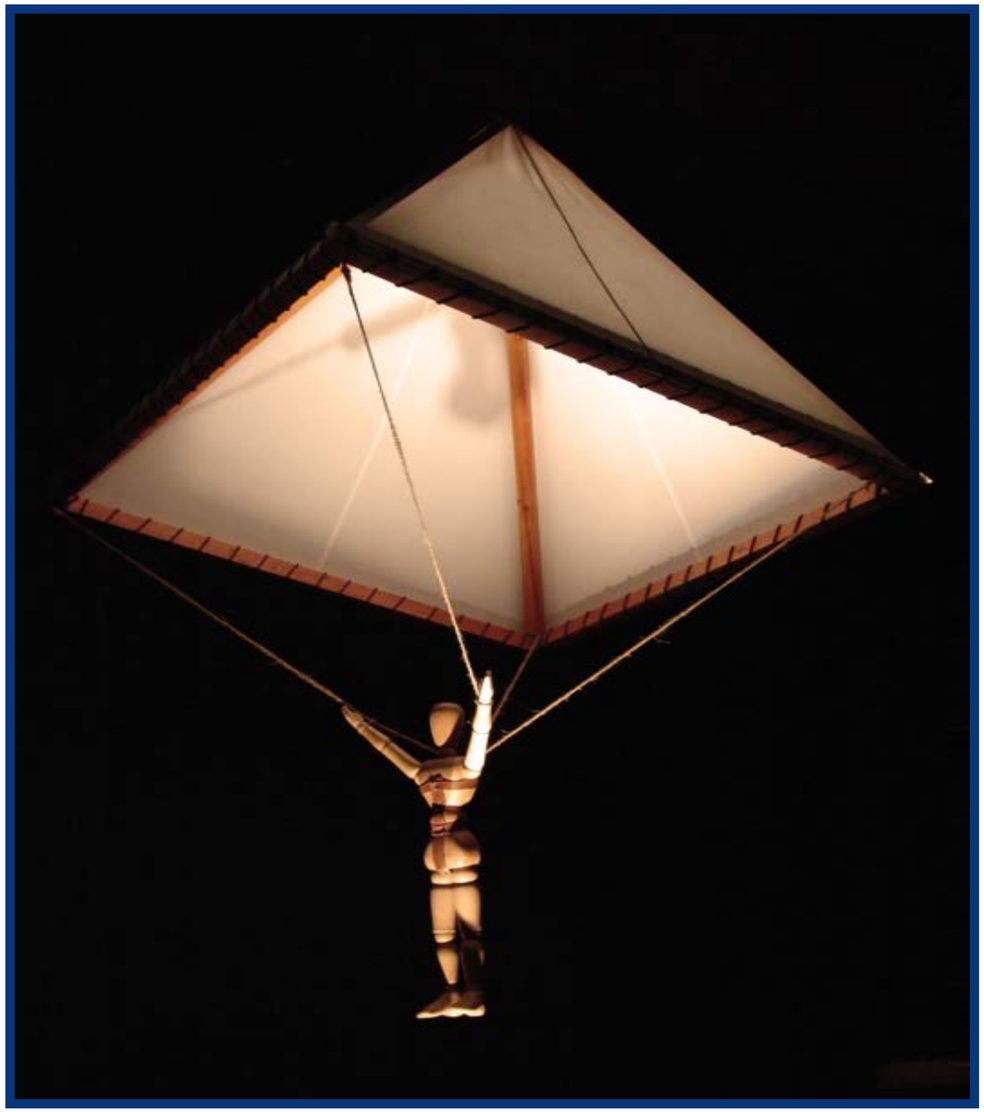
War Machines

Water and Land Machines

Innovations

Flying Machines

Flying Machines



Flying Machines

What is the invention?

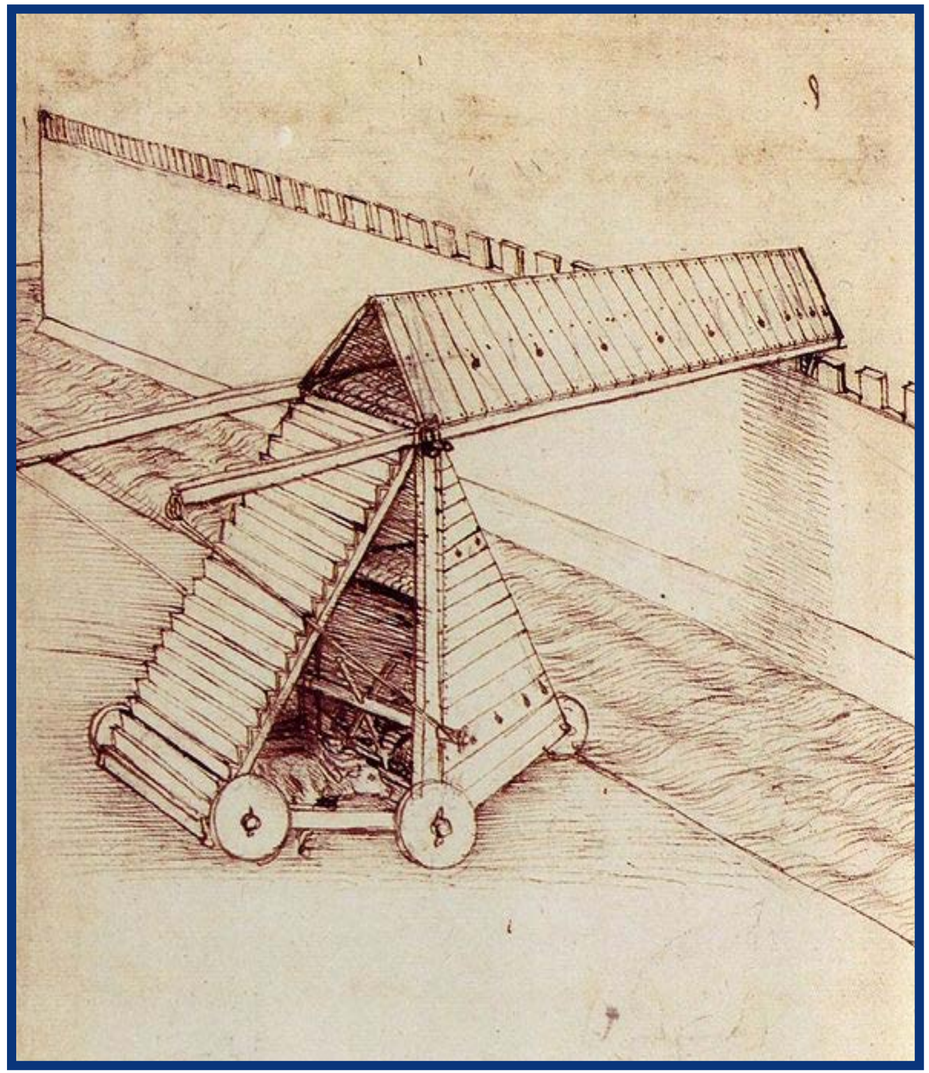
Do you think it works?

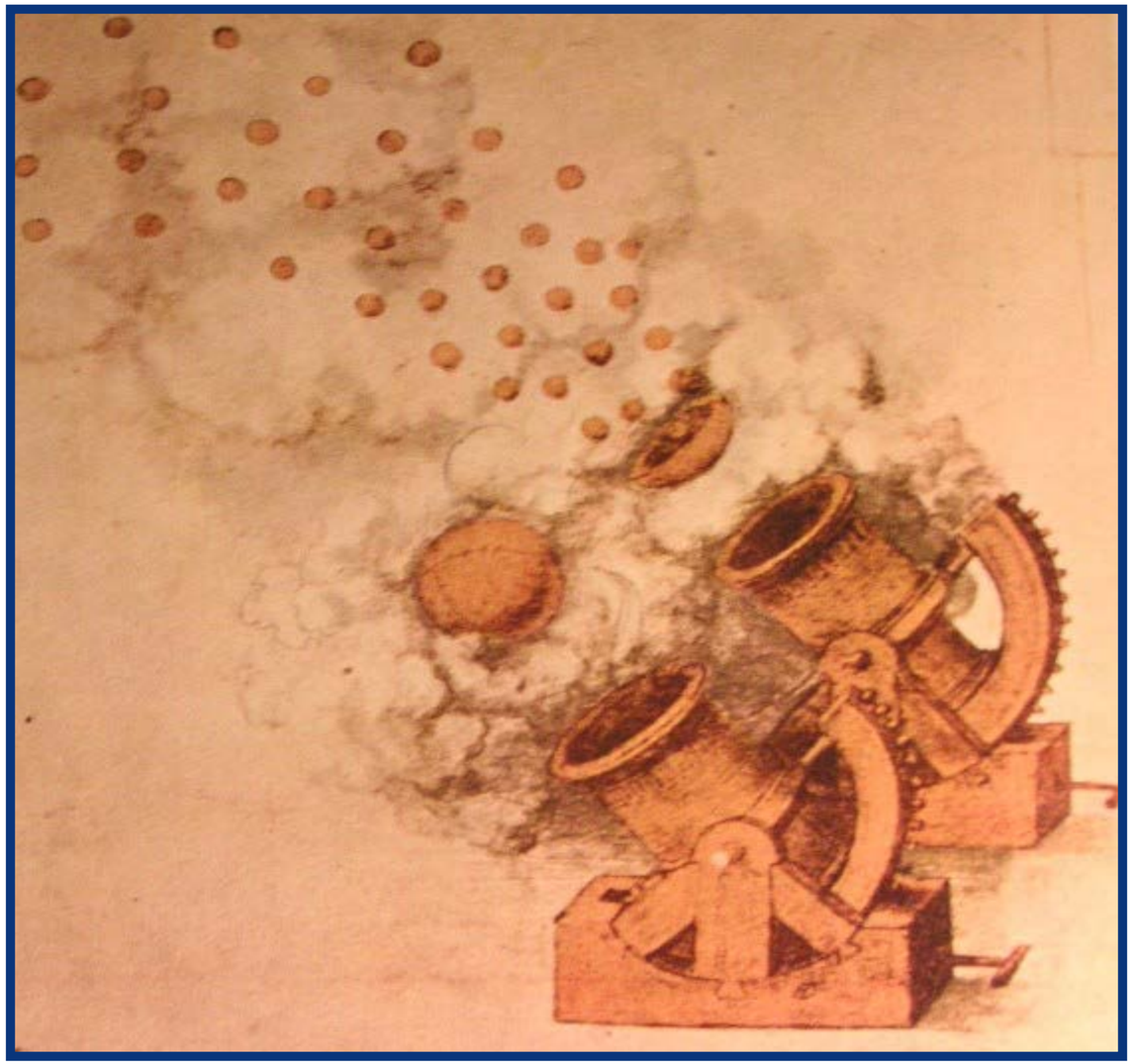
Do you think Leonardo da Vinci actually constructed it?

What materials would be used to construct it now?

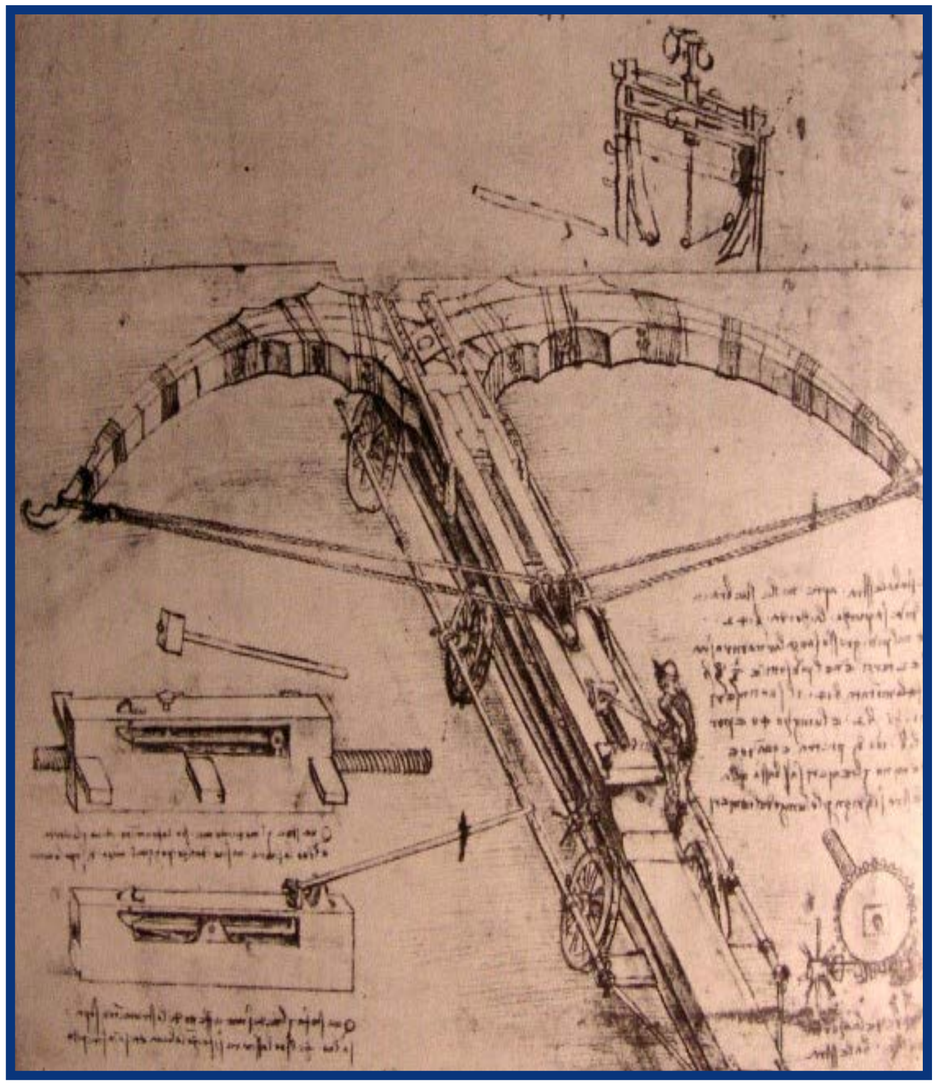
Wow! What amazing machines. Answer these questions for each flying invention. Discuss with a partner!

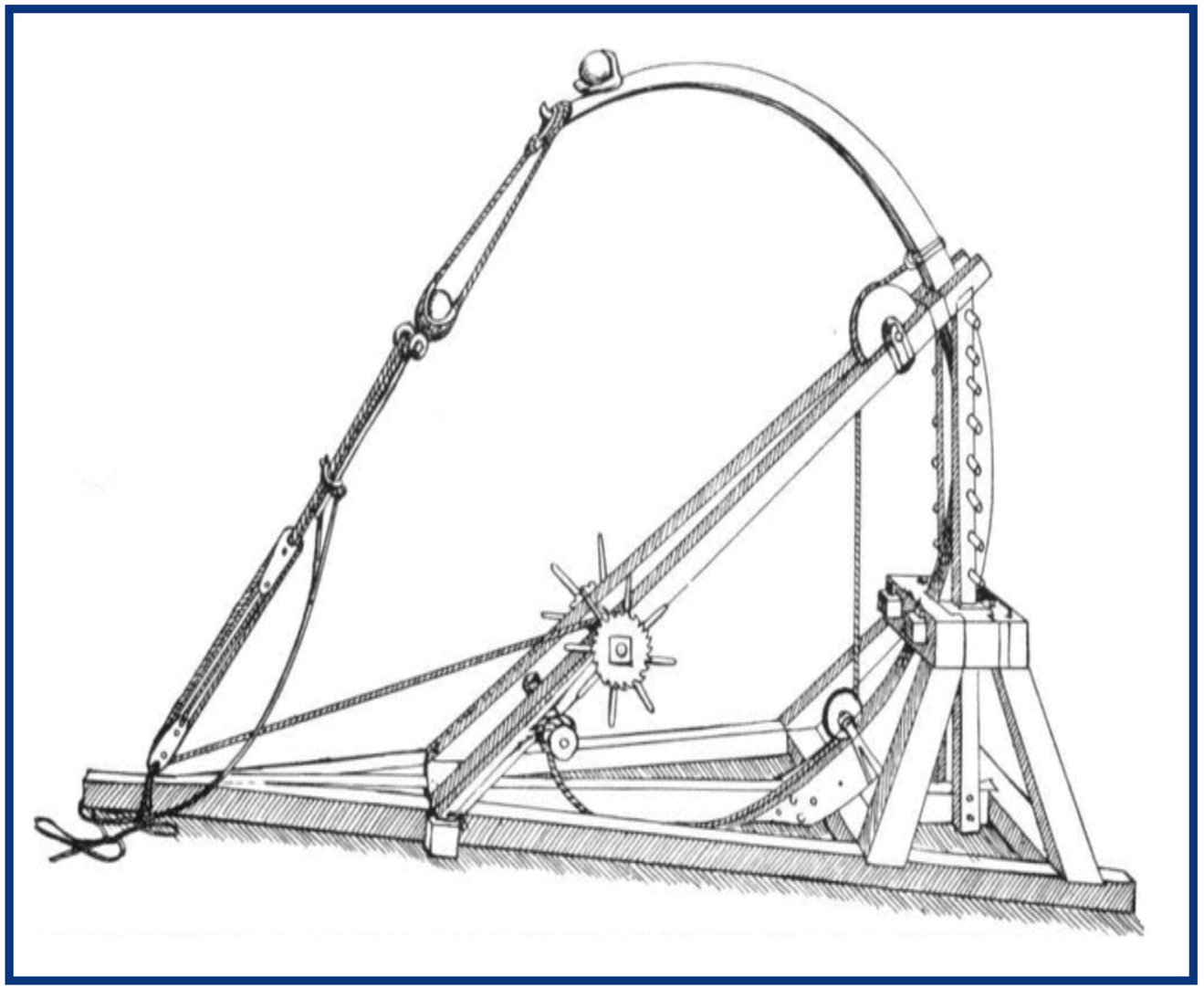
War Machines





War Machines





War Machines

What is the invention?

Do you think it works?

Do you think Leonardo da Vinci actually constructed it?

What materials would be used to construct it now?

Wow! What amazing machines. Answer these questions for each war invention. Discuss with a partner!

Water and Land Machines

Water/Land Machines

What is the invention?

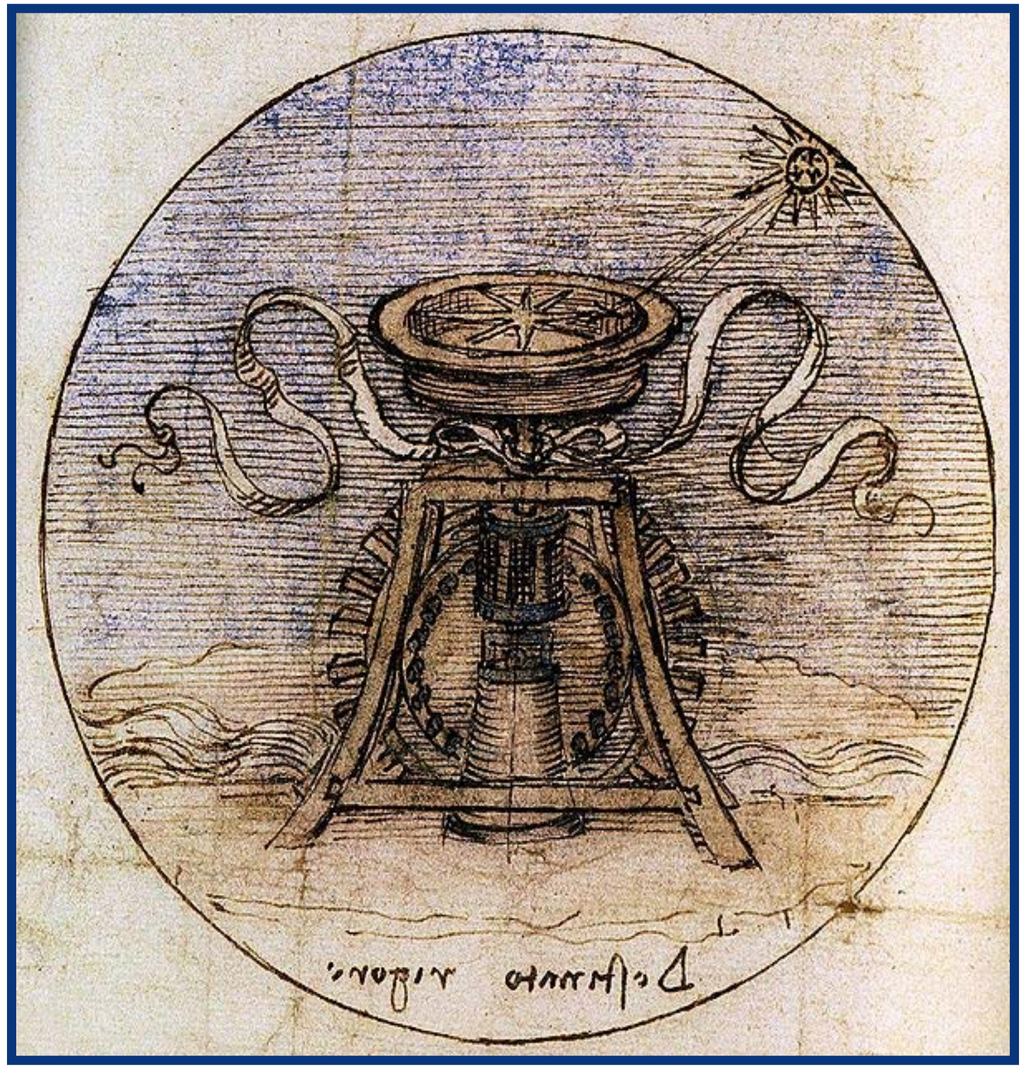
Do you think it works?

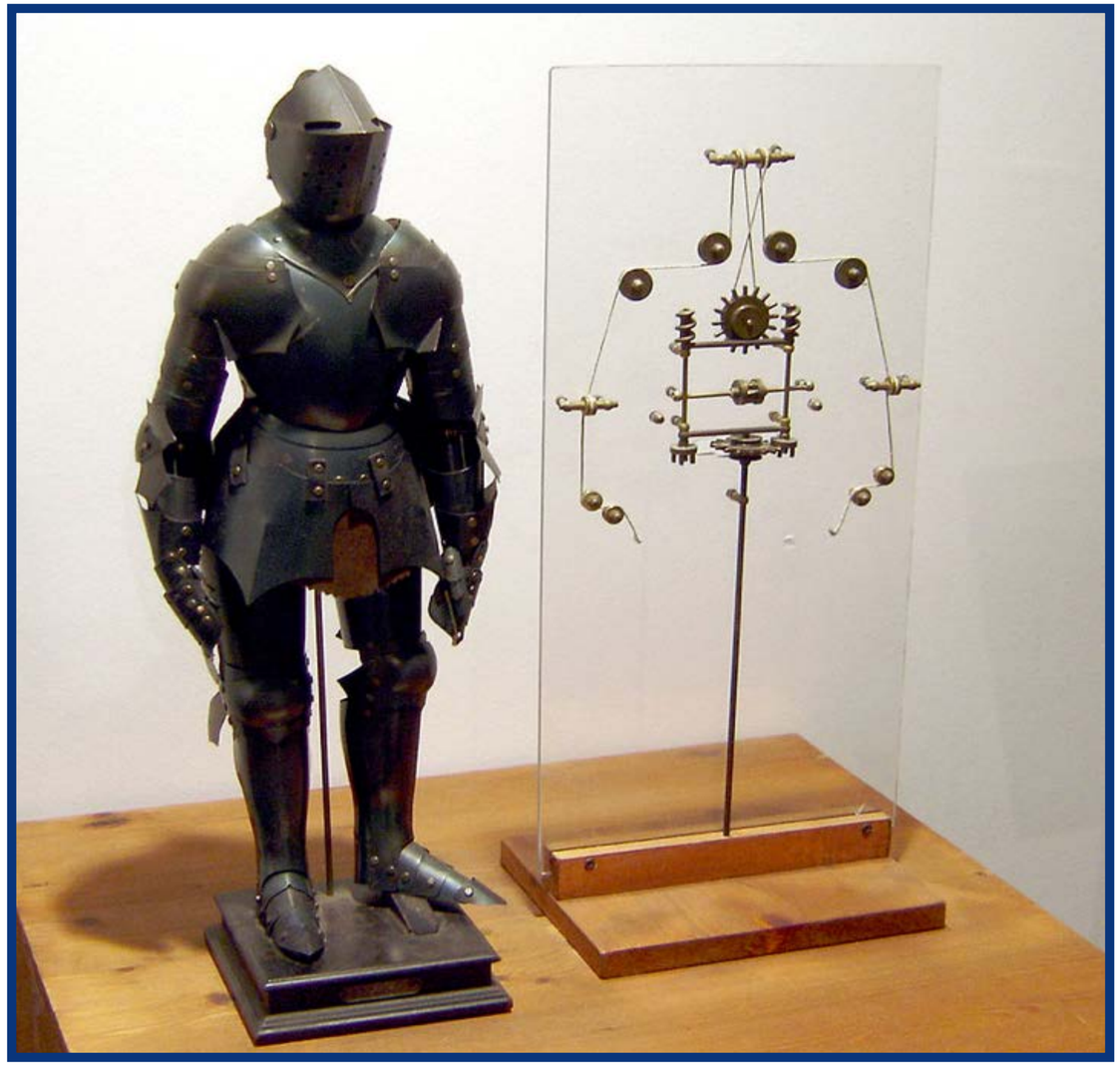
Do you think Leonardo da Vinci actually constructed it?

What materials would be used to construct it now?

Wow! What amazing machines. Answer these questions for each water/land invention. Discuss with a partner!

Innovations





Innovations

What is the invention?

Do you think it works?

Do you think Leonardo da Vinci actually constructed it?

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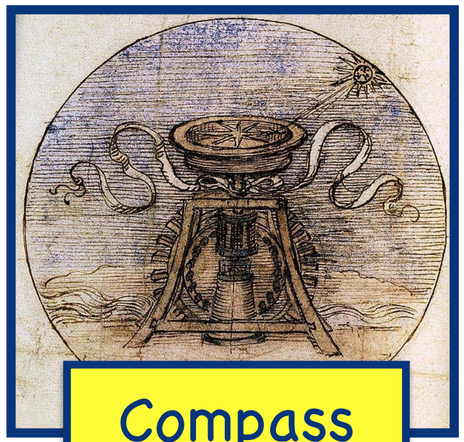
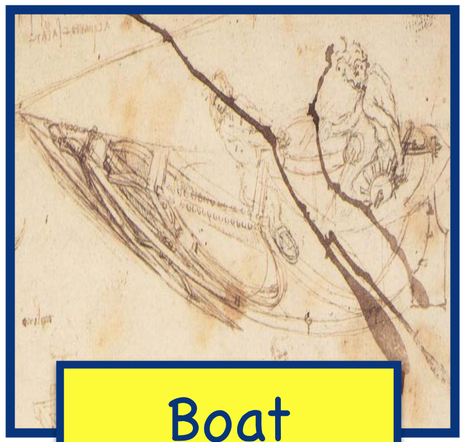
Wow! What amazing machines. Answer these questions for each innovation. Discuss with a partner!



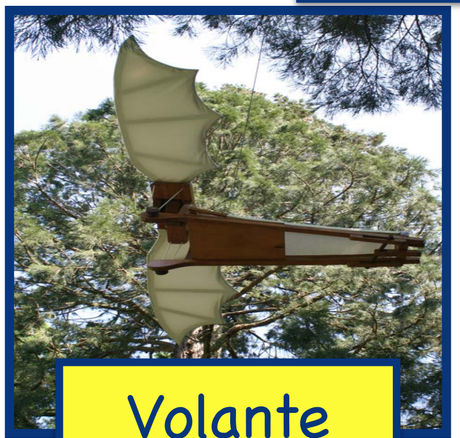
Compass

Robot

Bike



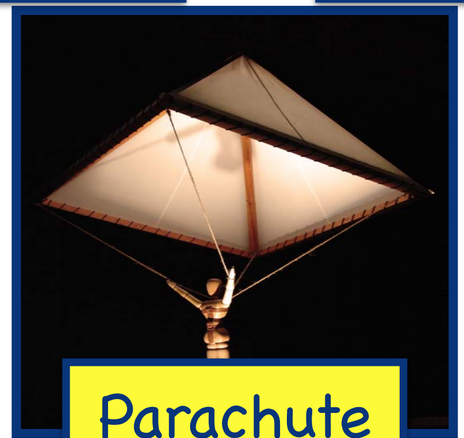
Boat



Volante

Cannon

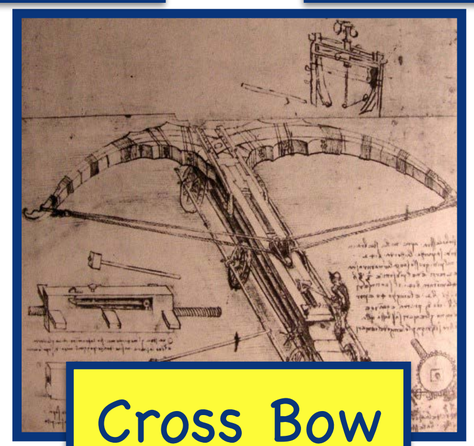
Wings



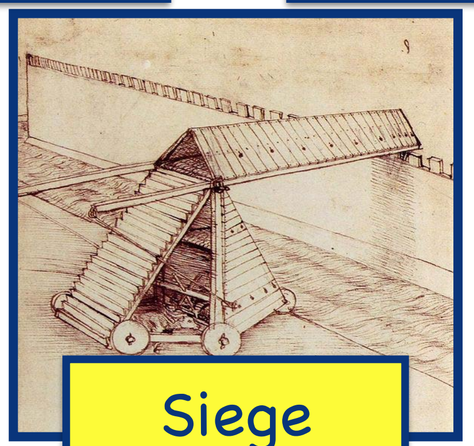
Parachute

Helicopter

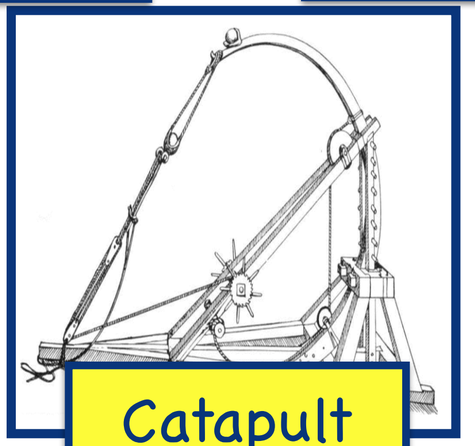
Lifebelt



Cross Bow



Siege



Catapult

Your activity today is to design a flying machine or a war machine just like Leonardo da Vinci.

GOOD LUCK!

Plenary

How does your design look? Did you enjoy the activity?

We can use SCAMPER to evaluate our designs.

S C A M P E R

SUBSTITUTE
Can you use another material?

COMBINE
Can you blend some materials together?

ADAPT
What else is like this?
Can you copy any ideas?

MAGNIFY/MINIFY
Can something be higher? longer?
Can you modify the shape?

PUT TO NEW USE
Is there a different way to use this?

ELIMINATE
Can something be taken away?
Can it be made lighter?

REVERSE
What would happen if you turned it upside down?
Can you use a different pattern?