



Inventors Lab

Grades 4 and up



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Are Pirates Real?

They were very **real** back then and although it might be hard to believe, they are still very **real** today as well. ... Modern-day **pirates** come from all over the world, scouring the waters of the Indian Ocean, the Red Sea and the coasts of Africa.

Class 1

Pirate Maps and Treasure Chests



Class 1

Let's make a treasure chest:

There is lots of ideas of how those looked, but we have not real found many.
What we know is that they have to close well and be easy to hide.

Can you think of a great mechanism to close the chest?

Can you make some good treasure to hide in there?

Can you make a map so you can hide the treasure and find it again?



Class 2

Pirate ships

Two of the pirates favorite types of ships were **the sloop** and the **schooner**. The speed and shallow draft of these ships enabled the pirates to hide in relative safety in shallower coastal waters where larger warships could not enter...

What are Traits of Pirates:

Pirates are maximizers of potential and opportunities. ...

Pirates are captains of their ship. ...

Pirates take action & set sail — navigating with intent towards their dreams.

Pirates are **optimistic** in their outlook and resist **cynicism** & negativity.



mollymoos



MakingCuddles.com



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Class 3

Medieval Castles

The catapults

What was a medieval catapult made out of?

Constructed entirely of wood, the Roman onager consisted of a kind of chassis set on four wheels upon which was mounted a long wooden “arm” with a large sling on the end of it.

What kind of simple machine is important for the catapult to work?



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Make a Simple Catapult

KidsActivities.com



FrugalFun4Boys.com

Class 4

The Well

The well was the most vulnerable part of a medieval castle

The leading water supply for a castle in times of both war and peace, wells were an incredibly vulnerable part of fortifications in the Middle Ages.

Without clean water, the castle would be forced to surrender.

Secret Entrances

Castles really did have secret entrances and exits:

The main secret entrance was known as the postern. Small and easy to defend, it was often secured with metal grates and protected by battlements above, while traditionally lying at the base of a castle's walls.

What kind of simple machines do you need to build a well?

**What kind of simple machines do you need to build a secret door?
How will it open?**



