

Make an Inclined Plane and Pulley



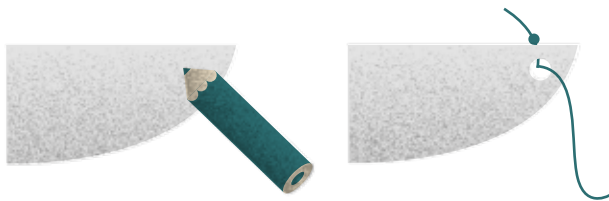
You will need:

- ◇ A piece of black card
- ◇ A craft paper square
- ◇ Scissors
- ◇ String
- ◇ Pencil
- ◇ Large wooden cotton reel

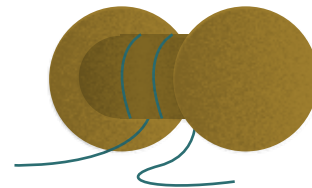
Did you know...?

Inclined planes allowed boats to carry coal from level to level in the underground canals. At one time a million tons of coal a year passed through the underground tunnels.

2. Make a small hole in one end of each boat using a pencil, thread the string through & knot.



1. Make another boat using the craft paper (see previous activity).
3. Wrap the string twice around the wooden reel. This will create a pulley....now for the inclined plane.



4. An inclined plane is another way of saying slope. You can make a slope out of anything flat, just as long as one end is higher than the other e.g. A piece of cardboard with one end on the sofa and the other end on the floor.

5. Now it's time to test your pulley, but first you must load one of your boats. In the mines they were loaded with coal, you can use crunched up pieces of black card for this.

6. Go to the top of your slope, placing the boats at the bottom of the slope and hold the wooden reel at the top.

7. Rotate the reel towards you and one of the boats should come towards you and the other away from you.

8. Transfer the coal into the other boat, rotate the reel the other way and the opposite should happen.

