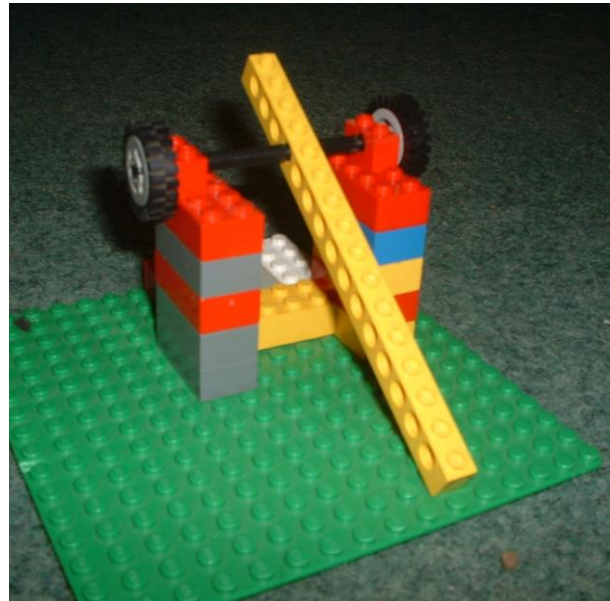


How to make a lego shaduf

You will need:

13 8 knobble lego bricks
2 technic lego wheels
2 2 technic lego 2 blocks with holes
1 16 or more knobble technic lego blocks with holes
1 technic lego axle
1 base board, any size
String
Pen lid
Plasticine



Method

To start with, thread the axle through the long 16 knobble block, not in the middle but closer to one end than the other. This will be the beam.

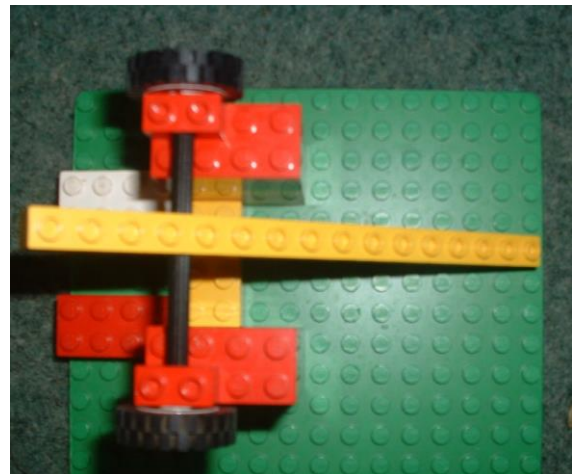
Secondly thread the beam through the 2 knobble blocks, so that one block is on each side of the axle. This means the beam can pivot.

Next, build 2 towers using the 8 knobble blocks. Each tower needs to be 5 blocks tall.

Fourthly make the collecting ditch using the remaining 3 blocks. They will need to make a U shape. Push them down onto the edge of the base board.

Next place the towers to make the frame for the shaduf. They need to be in front of the collecting ditch.

Now push the axle blocks down on top of the towers. They should be on the out



side line of knobbles. Make sure the short end of the beam is over the collecting ditch.

Seventhly, cut 2 lengths of thread 15cm long.

Thread 1 length of thread through the hole in the long end of the beam. Sellotape the ends onto the pen lid to make the water carrier.

Lastly thread the other length of thread through the other end of the beam. Mould plasticine onto the ends to be the counterweight. You will only need a small amount to balance the weight of the small amount of water the pen lid can hold.

Now test your shaduf – adjust the amount of plasticine if necessary.