




   
How does a Shaduf work?

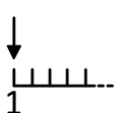
 A shaduf is an ancient tool that helps many people

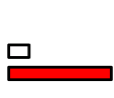
 lift water from rivers or wells. This simple machine


 has been used for thousands of years, especially in places

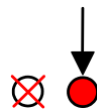
 like Egypt, where water is essential for farming.

 A shaduf is a fascinating construction which consists of three

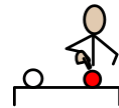
 main parts, a long wooden beam, a bucket and a pivot. The

 long wooden beam, which is often made from strong wood,

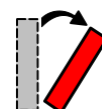
 is balanced on a sturdy post. One end of the beam is



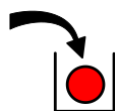
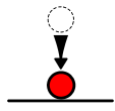
attached to a bucket, while the other end is weighted down



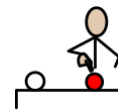
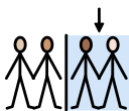
with a heavy stone or piece of wood. This design allows



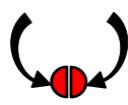
the beam to pivot easily. When the beam is tilted, the bucket



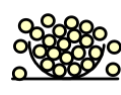
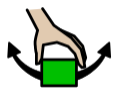
can be lowered into the water, whilst the weight on the



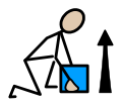
other side helps to lift the bucket back up. This clever



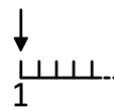
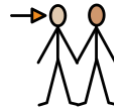
design generally makes it easier for people to collect water



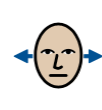
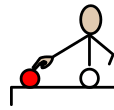
without using too much strength.



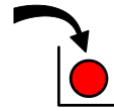
A shaduf operates to lift water for the farmers. When a



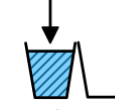
farmer wants to get water, they first pull down on



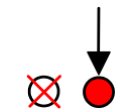
the end of the beam that is not attached to the bucket. As



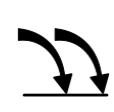
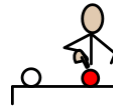
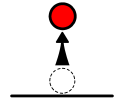
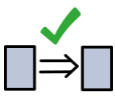
the beam tilts, the bucket plunges into the water filling up



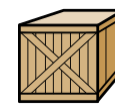
with lots of precious liquid. After the bucket is full, the



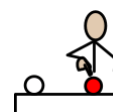
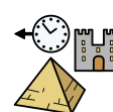
farmer releases the beam and the weight on the other end



causes the bucket to rise. This action is repeated several



times which allows the farmer to fill many containers with



water for their crops. In ancient times, this method was













 areas.

