

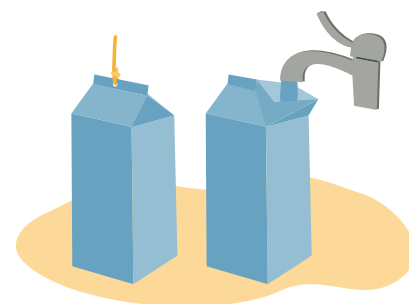
**Task:** *Let's see how flowing water can release energy.*

## What you need

- Two used one litre milk cartons
- Water
- Some string
- Hammer
- Nail
- Masking tape

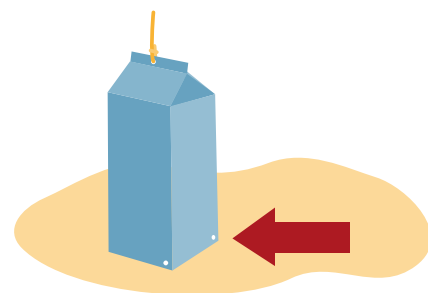
### Step 1

First clean the milk cartons and punch a hole in the top of one (for the string to go through). Use the other carton to hold about one litre of water.



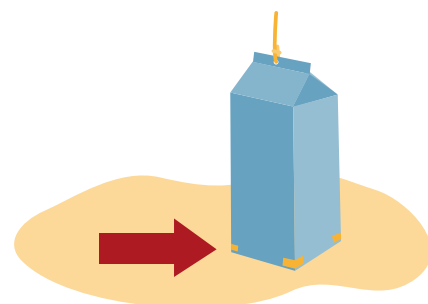
### Step 2

Punch a hole in the bottom right hand corner of each side of the carton.



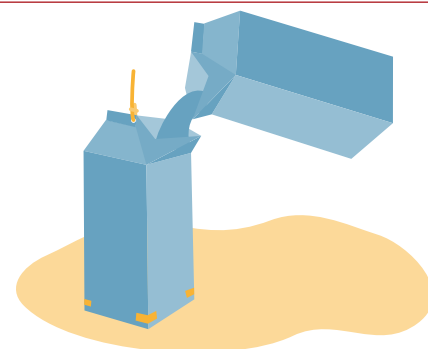
### Step 3

Tape the holes over with separate pieces of masking tape.



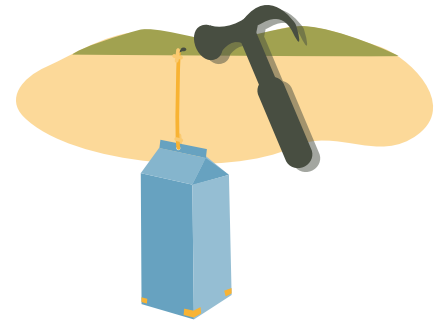
### Step 4

Fill the carton with water.



**Step 5**

Find somewhere to hang the carton by the string and nail – choose an outside place where the water will be welcome and not wasted.



**Step 6**

Pull the tape off one corner – what happens?

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**Step 7**

Pull the tape off the opposite corner – what happens then?

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**Step 8**

Pull off all the tape – what happens then?

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You've discovered *Newton's Third Law* which states that for every action there is an equal and opposite reaction.

The water flowing through the hole pushes the carton in the other direction – prompting it to turn. The more flow, means more push.