

## 6 Jetons 4èmes

### 1. Creativity

We would like to show Manneken Pis. It's a statue of a small boy peeing! He is said to have saved Brussels from a fire by peeing on the fire in order to extinguish it. There must be a pump in the statue so the water can go round and round! My uncle has a restaurant next to it and he says that he is peeing beer on special occasions!

### 2. Theory and research

There are no big bridges near. We have a lot of tunnels (cars, train, metro, tramway, even for busses!). The small foot-bridges near the city-center don't have special protections against temperature gaps.

### 3. Practice and project



When our group came, all cards were already folded! We had the idea to fold them not the short way, but the long way, which enables us to make a higher bridge with thinner legs. It is still very strong!



We realized that cards are very strong! Even a chair can stand on it!

We analyzed card-board: it's made of a "sandwich" of flat cardboard, and waves or triangles in-between. Very strong cardboard has 2 or even 3 layers of "waves" in-between.

We also analyzed window-frames, the board of the blackboard, and the metal pieces of our tables: it is always thin metal folded at angles. We cut the edges of solid plastic-boxes, and were surprised that the plastic on itself was quite soft!

We looked at the glass-roof of our school-playground: it has folded metal-structures, which are arched like a bridge. This roof must be very old already!