**Textile analysis**

With students we discussed different types of textiles. They claimed that some thin clothes are warmer than thick ones. They knew that depends on the clothing material.

I explained to the students that we were going to examine four different fabrics whether they are water proof and air proof.

I encouraged them to give ideas how to carry out the test with air proof fabrics. Some students gave their ideas and one of them was similar to our test. The students first touched the fabrics and tried to predict if they are air proof. They numbered them from number 1 (the most air proof) to 4 (the least air prooof). The students then carried out the test and they found out that cotton fabric (sterile swab) was most air proof, while jeans and cotton fabric were the least air proof.

Then I encouraged the students to give ideas to carry out the test with water. Again, they gave some ideas and one of them was similiar to our test. First they tried to forsee how water proof different fabrics are, then they wrote that down. They numbered them from 1 (most water proof) to 4 (the least water proof). They carried out the test and found out that the results were slightly different as with air proof fabrics. That came as a surprise to them. Sterile swab was most water proof, while jeans was the least water proof.

The student came to the conclusion that they need air resistant clothes to wear in windy weather. They also found out that water proof clothes are appropriate and comfortable to wear because we don't perspire so much and they are air proof. They also found out that light clothes are appropriate to wear on a hot summer day and jeans are appropriate to wear on a cold day.