**Activity 1.2.7 Solubility of plastic materials**

Materials:

Test tubes, clap stand , different kinds of plastic, cotton, metal and wood, different solvents (acetone, benzene, ethanol ...)

Procedure:

Fill the test tubes with different solvents and into each tube put a particular kind of plastic, cotton, metal and wood. Write your findings into the table:

**Tab. Solubility of plastic materials**

|  |  |  |
| --- | --- | --- |
| **Plastic** | **Time of action** | **Solvents** |
| **1.** | **2.** | **3.** | **4.** | **5.** |
| PVC  | 5 minutes |   |   |   |   |   |
| two hours |   |   |   |   |   |
| week |   |   |   |   |   |
| Polyethylene | 5 minutes |   |   |   |   |   |
| two hours |   |   |   |   |   |
| week |   |   |   |   |   |
| Polypropylene | 5 minutes |   |   |   |   |   |
| two hours |   |   |   |   |   |
| week |   |   |   |   |   |
| Polystyrene | 5 minutes |   |   |   |   |   |
| two hours |   |   |   |   |   |
| week |   |   |   |   |   |
| **Natural substances** | **Time of action** | **Solvents** |
| **1.** | **2.** | **3.** | **4.** | **5.** |
| Cotton | 5 minutes |   |   |   |   |   |
| two hours |   |   |   |   |   |
| week |   |   |   |   |   |
| Metal | 5 minutes |   |   |   |   |   |
| two hours |   |   |   |   |   |
| week |   |   |   |   |   |
| Wood | 5 minutes |   |   |   |   |   |
| two hours |   |   |   |   |   |
| week |   |   |   |   |   |