1. Maltese museums will be launching a pilot project to encourage more families to visit museums as a recreational outing. As part of this project, each museum will have a children’s corner with games and activities held in relation to the specific museum. One of these games shall involve two children playing some kind of mechanical game. Identify one particular museum in Malta or Gozo and produce such an interactive mechanical game related to the theme of the museum you have chosen.

2. Several local councils are operating differentiated waste collection in their villages. This procedure resulted in families having different bins for different types of waste. A local manufacturer has therefore decided to produce waste bins which contain five different compartments for different waste material, these being: general waste, paper, metal, plastic and glass. The bin should have one common lid which has to be pedal-operated. The user should be able to choose the compartment in which to throw the waste material. The bin has to be large enough to contain the recyclable waste of an average family for three days except for the general waste compartment which can be emptied daily. You are to limit the use of material and produce a model of the bin which is half the actual size.

3. A company producing bathroom accessories wants to invest in a new product aimed to promote personal care and hygiene with growing children. The accessory shall consist of a combined three-in-one product which includes:
   − a soap bar holder,
   − a shampoo bottle holder, and
   − a bath toy.
The toy can either be part of the whole holder or else a separate piece on its own. In the latter case, you still need to design the toy together with the accessory and leave adequate space for its storage. This accessory can either be fixed to the wall of the bathroom or placed on a shelf near the bath.