International Tournament Score Determination

The final score will be determined on the basis of a four-component weighted average:

1. **Senior judges’ scores: 45% of the final score**
   
   Each group will be tested by a professional team of three judges: Faculty members from the Weizmann Institute of Science, the Davidson Institute for Science Education, and selected teachers. Each judge will examine the team individually and separately.

   **Judges consider:**
   
   - The process of developing the theoretical concept – formulating the idea and organizing and integrating the information.
   
   - Knowledge and understanding – exercising sound judgment in selecting the physics principles, the level of understanding of all the team’s members and cooperation among them, their ability to relate to other phenomena or uses.
   
   - Implementation – straightforward, continuous, and elegant safe operation, creating an aesthetic safe, and using materials suitable for the mechanism.

2. **Student evaluation – safe crackers’ feedback: 20% of the final score**

   **Ranking criteria:**
   
   - **Implementation** – the safe presents an original idea and a simple, continuous, and elegant operation.
   
   - **Quality and finish** – the safe is aesthetic, made of materials suitable for the mechanism.
   
   - **Interaction with the safe team** – team members polite and the safe is fair.
   
   - **Team’s success in cracking other teams’ safes:**

3. **The team’s success in cracking other teams’ safes: 25% of the final score**

4. **Safe resistance to cracking attempts: 10% of the final score**