



CULTURAL INTERSEK BUDAPEST-2018



Activity: CHAIN REACTION (Rube Goldberg Machine) Contest

THEME: "CRAZY INGENUITY"

PERSON IN CHARGE: Christopher Southwick, christopher.southwick@iesmail.com

PARTICIPANTS: Maximum five students per delegation

OBJECTIVE: Design, build, clearly explain, and successfully run a Rube Goldberg machine. The delegation that abides by the rules and runs a machine with the most ingenuity wins.

STAGE 1. Design and build a Rube Goldberg machine, which is a purposefully complex contraption with many simple steps that form a chain reaction, leading to a final step that accomplishes a very simple task. Students will complete this stage in their home countries. There is no specific task assigned. Students should be creative in determining the ultimate task to be accomplished, as well as the modality of steps leading to the realization of the task.

STAGE 2. Assemble machine on-site, introduce and give a clear explanation of each step in the sequence to members of the jury, and demonstrate the machine with a successful run.

SPECIFICATIONS	Min	Max
Steps	20	30
Size	None	3m X 3m
Introduction and Explanation	None	2 minutes
Run Time	None	2 minutes



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ADDITIONAL RULE: Delegations must include each of the following classical simple machines somewhere in the sequence of steps:

- lever,
- screw,
- wedge,
- pulley,
- inclined plane,
- wheel,
- axle.

RESTRICTIONS: Dangerous or hazardous materials, open flames or any type of explosives are strictly prohibited. Indecent and inappropriate expressions or steps that allude to such are forbidden and will mean immediate disqualification.

EVALUATION: A jury consisting of chosen teachers from each of the participating institutions will evaluate the machines and assign a number score based on the following criteria:

- adherence to specifications
- inclusion of all six classical simple machines
- amount of “crazy ingenuity”