

MISSION POSSIBLE



Sample Action Sequence List – 2021

No.	Action Description	Action Number	Points
1	Golf ball is dropped into the device, hits a wedge. Initial ball comes to rest on top of wedge.	START	100
2	Wedge is hit, separates two golf balls. One golf ball rolls down ramp to hit a domino.	xi.	50
3	Domino hit by golf ball cascades into series of dominos. The final domino lands on a microswitch.	iii.	50
4	Microswitch powers circuit, turning on fan. Fan pushes boat down channel. Boat hits lever.	x.	50
5	Lever swings up and releases pin from pulley system.	-	-
6	Pulley system raises golf ball up tube at least 10 cm. Golf ball comes out of tube at top and rolls toward a switch.	vii.	50
7	Switch triggers release of sand which begins to pour into lever, beginning sand timer. Sand lever arm slowly raises and hits initial golf ball from resting place.	TIMER	-
8	Initial golf ball rolls down tube, falls into place on golf tee.	FINAL	250

Notes: This is a sample Action Sequence List (ASL) that students may use as a guide for formatting and sample content.

All actions (scorable and non-scorable) must be numbered on the ASL and correspondingly numbered inside the Device.

In the above ASL, the numeric action numbers correspond to Scorable Actions listed in section 3.c. of the rules.

Include point values for the Start Action, Scorable Actions, and the Final Action but not the timing step as points earned from the timer will depend on the time measured at competition.