

Mission Possible 2020

Steps to Building

a Successful and

Competitive Device

STEP #1:

Start with a clear table-top.

Don't attach anything to the table.

Don't worry about the dimensions of the device (yet)





STEP #2:

Explain the rules for the Starting Task

Design & build to start one action as the golf ball come to rest in a “good” location.

The action doesn't have to be a numbered task.

Make sure it works every time!

STEP #3: Explain the rules for the timing device.

Design and build a timing device.

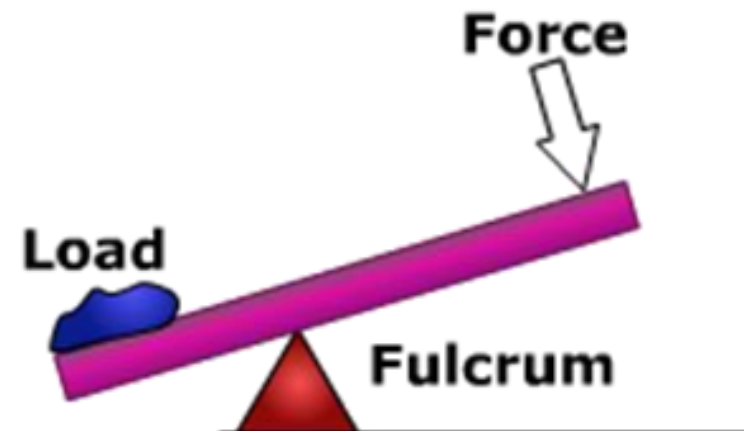
Have an action start the timing device.

Have the timing device trigger the next action.

Learn how to vary the time the device runs.

Make sure it works every time!

**Later, the timer will put in its proper place
in the device.**



STEP #4: Explain the final task.

Design and build a way to complete this task.

Read the rules for this part to make sure it qualifies.

Make sure it works every time!



STEP #5: Look at the numbered tasks.

- **Decide which ones are easiest to build.**
- **Build the easiest task & use an action to start it.**
- **Then, have the easy action initiate another action.**
- **Make sure it works every time!**

Action 2 to 6?

Action 3 to 9?



STEP #6: Keep designing and build tasks.

**Make sure each one can be triggered by a task and
can trigger the next task.**

Make sure it works every time!



STEP #7: Set a date to tie everything together.

Re-construct each task to be as small as possible.

Continue connecting tasks, but be sure to stay within the limits for device dimensions. (60 cm.)



STEP #8: At some point, stop building and:

- Work on making the device operate consistently.**
- Play with maximizing the timer points while stopping between 60 and 61 seconds (every time).**
- Read the rules over and over and check everything.**
- Don't flirt with losing points by breaking the rules!**

