

Junkyard Challenge '10

- The timed signed up for at self-registration is the **run time!** Participants should arrive up to ½-hour early for set up.
- The devices will be set up on the floor. I am **trying** to get a portion of the hard floor in the Sports Expo Center (SEC). However, I cannot guarantee the flatness or levelness of the floor. If your device is sensitive to either of these, make sure you include a means to address this in your design.
- Impound is required. Everything needed to set up and run the device, **including tools**, must fit inside the box. After impound, the only item students will be allowed to bring into the event area will be eye protection.

Scoring:

- There are 842 possible points. See handouts for score sheet and a screen shot of the Excel spreadsheet that will be used for scoring.
- Any action occurring after 60 seconds will not be scored.
- Keep visibility in mind while designing the device; We can only give credit for what we can see.
- The timed signed up for at self-registration is the **run time!** Participants should arrive up to ½-hour early for set up. This is a repeat, but it is that important!

Junkyard Challenge

Score Sheet

Run Time:

Team #:

School:

Scoring:

- Within box dimensions/lid closed
- Mousetraps labeled
- Ready to run within 30 minutes
- Mousetraps 90 degrees apart
- Successful Start Task
- Successful Task Completion
- Five seconds before 1st mousetrap tripped
- "North" mousetrap tripped 1st
- "South" mousetrap tripped 2nd
- "West" mousetrap tripped 3rd
- "East" mousetrap tripped last

_____ Number of whole seconds device operates to task completion*

_____ Number of mousetraps tripped by the device

Penalties:

_____ Number of "Touches"

_____ Distance off defined distance (in whole centimeters)

Screen Shot of Junkyard Challenge Spreadsheet

Junkyard Challenge '10																				
Run Time	Team Number	School	Points											Penalties			FINAL SCORE			
			Within Box Dims (22 pts)	All Mat'l & Labels (33 pts)	Ready to Run (100 pts)	90 Degrees Apart (17 pts)	Start Task (58 pts)	Task Complete (60 pts)	Run Time (in Sec's) (2 pts/sec)	5 Sec's Before Trip (42 pts)	#Traps Tripped (35 pt/trap)	North First (25 pts)	South Second (50 pts)	West Third (75 pts)	East Last (100 pts)	Total Points (842 MAX)		No. of Touches (18/touch)	Distance Off (8/cm)	Total Penalties
10:50									0		0					0	0	0	0	0
11:00									0		0					0	0	0	0	0
11:10									0		0					0	0	0	0	0
11:20									0		0					0	0	0	0	0
11:30									0		0					0	0	0	0	0
11:40									0		0					0	0	0	0	0
11:50									0		0					0	0	0	0	0
12:00									0		0					0	0	0	0	0
12:10									0		0					0	0	0	0	0
12:20									0		0					0	0	0	0	0
12:30									0		0					0	0	0	0	0
12:40									0		0					0	0	0	0	0
12:50									0		0					0	0	0	0	0
1:00									0		0					0	0	0	0	0
1:10									0		0					0	0	0	0	0
1:20									0		0					0	0	0	0	0
1:30									0		0					0	0	0	0	0
1:40									0		0					0	0	0	0	0
1:50									0		0					0	0	0	0	0
2:00									0		0					0	0	0	0	0
2:10									0		0					0	0	0	0	0
2:20									0		0					0	0	0	0	0
2:30									0		0					0	0	0	0	0
2:40									0		0					0	0	0	0	0
2:50									0		0					0	0	0	0	0
3:00									0		0					0	0	0	0	0
3:10									0		0					0	0	0	0	0
3:20									0		0					0	0	0	0	0