

MARSHALL

MARSHALL ELEMENTARY SCHOOL SCIENCE FAIR PROJECTS DUE FEB. 2 IN-AREA KINDERGARTEN REGISTRATION FEB. 23

A CERTER OF CONTRACTOR OF THE

Abdulah Ali Almutairi Mohammad Alkatan Abdullah Yousef Alkatan Taha Ala

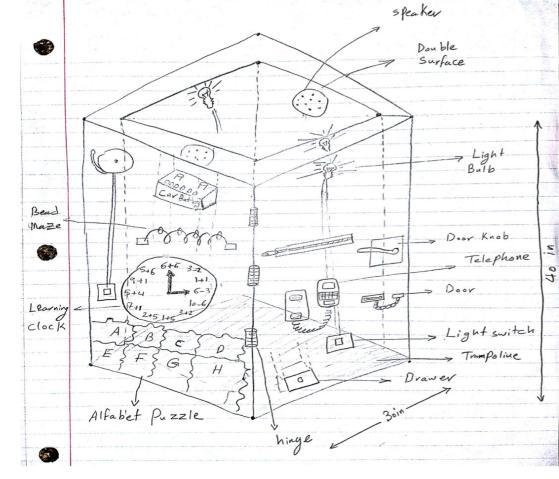
Abdullah Almutairi Taha Alansari

Project Description

• Sensory board

• Sensory parts attached

• Disabled kids



Abdullah Ali - 2 03/14/2018 Marshall Classroom-F5

Images of the Design

Abdullah Ali - 3 03/14/2018 Marshall Classroom-F5



Updates

	Updates/Changes		Causes
1.	Decrease the number of parts attached to— the sensory board	▶●	Decrease the size of the design
2.	No Trampoline	•	For safety
3.	No car batteries		For safety Large size of the car battery Cost

What is left in the manufacturing of the design?

• Adding more parts to our design.

Mohammad Alkatan - 4 03/14/2018 Marshall Classroom-F5

Analytical Analysis:

- Wood thickness.
- Strength and type of corners.
- Stability of the design.



Mohammad Alkatan - 5 03/14/2018 Marshall Classroom-F5

Moving Forward

Yousef Alkatan -6 (03/14/2018)

Marshall Classroom-F5

Plans of manufacturing:	Who did it ?
1- Clients needs	Abdullah Ali and Mohammad
2- Sketch the design	Mohammad
3- The agreement from the client	Abdullah Ali
4- CAD	Yousef and Abdullah Ali
5- Prototype	Yousef, Taha, and Abdullah Abdulaziz
6- Buying parts	All the team's members
7- Analytic analysis	All the team's members
8- List solutions for the analytic analysis problems	All the team's members
9- Build the design	All the team's members
10- Test the design	_
11- Fix minor errors and build the final design	_

Moving Forward

Plans for Testing:	Engineering Requirements:				
Testing different types of wood	Medium Weight				
Search and test many ways to make sure the — design do no tip over	► Safety				
Choosing high quality of wood —	→ Durability				
 Testing the ways of fasten the sides of the wood Testing how to attach the parts to the wood 	Cohesive				

Yousef Alakatan - 7 03/14/2018 Marshall Classroom-F5

Results of Testing and Redesign

- Wood Thickness
- Number of hinges
- Trampoline
- Soft Balls

Abdullah Ali - 8 03/14/2018 Marshall Classroom-F5

Gantt Chart

Abdullah A Almutairi - 9 03/14/2018 Marshall Classroom-F5

		Jan			Feb	Feb Mar						Apr						
1	isk Name	Jan 15		Jan 29	Feb 5	Feb 12	Feb 19	Feb 26	Mar 5	Mar 12	Mar 19	Mar 26	Apr 2	Apr 9	Apr 16	Apr 23	Apr 30	May
	i 💌		⊕, 1															
1	Team Meeting	Team N	1000															
2	Staff Meeting		Staff Meet	ing														
3	Staff Meeting					Staff Me	eting											
4 💌	Hardware Review 1					Hardwa	are Review 1											
5	Team Meeting			Team	Meeting													
6	Team Meeting						Team Me	eting										
7	Individual Analysis II							Indivi	dual Analysis	111								
8	Hardware Review 2								Hardward	e Review 2								
9	Midpoint Presentatic									Midpoir	nt Presenta	tion						
10	Midpoint Report									Midpoint	Report							
11	Team Meeting												Team M	eeting				
12	Staff Meeting											Staff Me	eting					
13	Final Product Testing														Final P	roduct Testi	ng Proof	
14	UGRADs Practice													UGRAD	s Practice			
15	Poster	7													Poster			
16	UGRADS															UGRAD	os	
17	Final Report	-															ine -	Fin
18	CAD package																E/a	CAD

March/20/2018 Update Cad Testing Feedback from client possible Redesign update changes 9% 18% 27% 45% 54% 63% 72% 81% 90% 100% complete 36%

Abdullah A Almutairi

- 10 03/14/2018 Marshall Classroom-F5

Schedule

Budget

- Total Budget for this project is \$2000
- Actual Expenses:
 - \$275.48 Wood
 - \$297.39 Other Supplies
- Anticipated Expenses:
 - About \$800



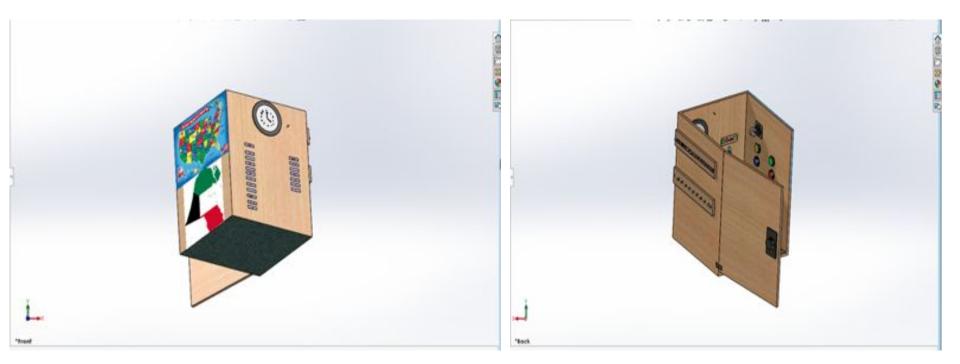
Abdullah A Almutairi - 11 03/14/2018 Marshall Classroom-F5

List of Materials:

1	Materials	Cost in \$	Quantity	Total Cost \$	22	MAGNETIC	\$19.99	1	\$19.99	
1	Alphabet and number	\$29.99	2	\$59.98	0.00	CHALKBOARD	Contraction of the Contraction	0.000		
	puzzle	- 507			23	TAX	\$2.11	N/A	\$2.11	
2	Bell	\$5.85	2	\$11.70	24	DOOR HANDLE	\$12.05	1	\$12.05	
3	Zippers	\$7.50	1	\$7.50	25	MAGNETIC TAPE	\$3.88	4	\$15.52	
4	Buzzers set of 4	\$18.97	1	\$18.97	26	TAX	\$1.39	N/A	\$1.39	
5	Tax	\$1.70	N/A	\$1.70	27	WOOD 0.725IN *48IN *	\$49.98	3	\$149.94	
6	Days cards	\$6.99	1	\$6.99		96 IN		-	8. B	
7	Monthly calendar cards	\$5.99	1	\$5.99	28	WOOD 1.5IN *3.5IN * 96IN	\$9.77	8	\$78.16	
8	US map chart	\$3.49	1	\$3.49	29	SCREWS	\$8.38	1	\$8.38	
9	Shapes Sound Puzzle	\$12.99	1	\$12.99	30	HINGS	\$3.67	3	\$11.01	
10	Tax	62.64	N1/A	62.64	31	TAX	\$22.15	N/A	\$22.15	
10	Tax	\$2.64	N/A	\$2.64	32	WOOD CEDR	\$16.92	2	\$33.84	
11	Wall clock	\$3.88	1	\$3.88		.216IN*23.75IN*47.75IN	21.21.21.21.21.21.22	220	1000000	
12	BP DOOR CHN	\$3.97	1	\$3.97	33	TRIM BOARD	\$3.22	3	\$9.66	
13	NK RD DR HNG	\$2.97	1	\$2.97	34	TAX	\$3.88	N/A	\$3.88	
14	3 BRRL BOLT	\$2.67	1	\$2.67	35	TAPE FOR THE IPAD	\$6.97	1		
15	2 WD SCRW	\$0.97	1	\$0.97				1	\$6.97	
16	TAX	\$1.29	N/A	\$1.29	36	AAA BATTERY	\$11.78	1	\$11.78	
17	CASTER SWVL	\$2.94	4	\$11.76	37	AA BATTERY	\$6.94	1	\$6.94	
18	DRLCK HALLCL	\$7.87	1	\$7.87	38	TAX	\$2.30	N/A	\$2.30	
19	Wall clock	\$3.88	1	\$3.88	- 3 201 A MARCH 20 20 20 20 20 20 20 20 20 20 20 20 20		Owned			
20	TAX	\$2.10	N/A	\$2.10	TOTAL COST: \$572.87					
21	WORLD MAP	\$3.49	1	\$3.49	-					

Abdullah A Almutairi - 12 03/14/2018 Marshall Classroom-F5





Taha Alansari - 13 03/14/18 Marshall Classrom

Hardware Review #2 (Video)



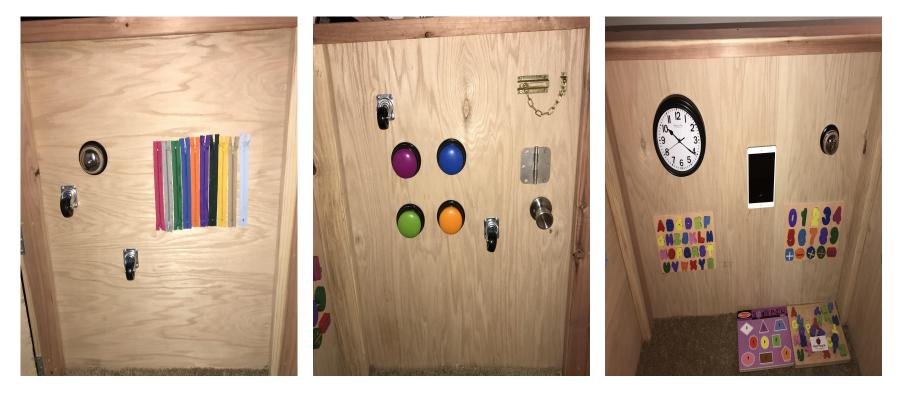
Taha Alansari - 14 03/14/2018 Marshall Classroom-F5

Hardware review #2 - Outside



Taha Alansari - 15 03/14/2018 Marshall Classroom-F5

Hardware Review #2 - Inside



Taha Alansari - 16 03/14/2018 Marshall Classroom-F5

