

OCTELAB SAFETY NET

APPENDIX A - PROJECT / LEARNING ACTIVITY MATERIALS, PHYSICAL RESOURCES

PROJECT / LEARNING ACTIVITY TITLE: Room 2 Room Rube Goldberg Machine

COURSE CODE AND TITLE: TDJ4M

VERSION PREPARED DATE: November, 2012

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PROJECT / LEARNING ACTIVITY MATERIALS LIST FOR THIS PROJECT / LEARNING ACTIVITY

MATERIAL	QUANTITY	DESCRIPTION	SOURCE	WHMIS MSDS ATTACHED	SAFE STORAGE	WASTE DISPOSAL
This Room 2 Room Rube Goldberg is based on the students finding materials that will work to create the transfer of force, movement and motion. There is a project component that allows them to machine/manufacture 7% of the RGM						
wood	9 @ 2" x 4" x 8'	Spruce or available scrap	☒ new, purchased ☐ new, donated from community, industry ☐ recycled from inside school ☐ recycled from outside school PREPARATION REQUIRED FOR USE: DETAILS: scrap wood is easily available from community or from school/board construction shops	☐ Y ☒ N	Lumber rack	reuse whenever possible or dispose through recycling
tape	3 rolls @ duck		☒ new, purchased	☐ Y		

	tape 1 roll @ carpet tape 3 rolls @ packaging tape		[] new, donated from community, industry [] recycled from inside school [] recycled from outside school PREPARATION REQUIRED FOR USE: DETAILS:	[X] N		
Plastic pails	5 gallon plastic pails		[] new, purchased [] new, donated from community, industry [X] recycled from inside school [] recycled from outside school PREPARATION REQUIRED FOR USE: DETAILS:	[] Y [X] N	material storage area	recycle whenever possible, ask custodian to save pails
rope	¼ cotton or synthetic		[] new, purchased [X] new, donated from community, industry [] recycled from inside school [] recycled from outside school PREPARATION REQUIRED FOR USE: DETAILS:	[] Y [X] N	material storage area	recycle whenever possible
string	white		[X] new, purchased [] new, donated from community, industry [] recycled from inside school [] recycled from outside school PREPARATION REQUIRED FOR USE: DETAILS:	[X] Y [] N	Storage Cabinet	standard waste

PHYSICAL RESOURCES USED FOR THIS PROJECT / LEARNING ACTIVITY

EQUIPMENT, TOOL, MACHINE	SUBJECT – SPECIFIC NEEDS	INSPECTED FOR SAFETY FEATURES	STUDENT TRAINING PLAN IDENTIFIED	MAINTENANCE SCHEDULE
NOTE: TEACHER EXPERIENCE AND SAFETY PROFICIENCY IS ASSUMED. DETAIL EQUIPMENT: Drill Press MANUAL APPLICABLE / AVAILABLE (LOCATION): Classroom Filing Cabinet	MACHINE GUARDING AND SHIELDING APPLICABLE [X] YES [] NO [] N/A EMERGENCY STOP / PANIC BUTTON APPLICABLE [X] YES [] NO [] N/A LOCK-OUT TAG APPLICABLE [X] YES [] NO [] N/A OTHER (SUBJECT-SPECIFIC) [] YES [] NO [] N/A	[] Teacher DATE: _____ [X] Board DATE: Fall 2011	DETAIL STEPS: Five Step Process: 1 Student attended teacher safety instructions, lessons, demonstration(notes recorded) 2 student passed oral or written assessment (test) 3 student demonstrated safe setup and operation of equipment to teacher 4 student prepared and delivered power point presentations on all class tools and machines 5 student granted permission to use equipment SIGNAGE: safety sign posted by drill presses RESOURCES: • safety lesson • drill press safety video • tool power point presentation • drill press manual FREQUENCY OF RETRAINING ADVISED: Students should be re-trained every semester. Safety passport expire at the end of every semester.	DAILY: WEEKLY: MONTHLY: ANNUALLY: scheduled maintenance two times per year or as required CONTACT FOR REPAIR: handled through board Plant dept.

NOTE: TEACHER EXPERIENCE AND SAFETY PROFICIENCY IS ASSUMED. DETAIL EQUIPMENT: Bandsaw MANUAL APPLICABLE / AVAILABLE (LOCATION): Classroom Filing Cabinet	MACHINE GUARDING AND SHIELDING APPLICABLE ☒ YES ☐ NO ☐ N/A EMERGENCY STOP / PANIC BUTTON APPLICABLE ☒ YES ☐ NO ☐ N/A LOCK-OUT TAG APPLICABLE ☒ YES ☐ NO ☐ N/A OTHER (SUBJECT-SPECIFIC) ☐ YES ☐ NO ☐ N/A	☐ Teacher DATE: _____ ☒ Board DATE: Fall 2011	DETAIL STEPS: <u>Five Step Process:</u> 1. Student attended teacher safety instructions, lessons, demonstration(notes recorded) 2. student passed oral or written assessment (test) 3. student demonstrated safe setup and operation of equipment to teacher 4. student prepared and delivered power point presentations on all class tools and machines 5. student granted permission to use equipment SIGNAGE: safety sign posted by bandsaws RESOURCES: • safety lesson • safety video • safety check • tool powerpoint presentation • manual FREQUENCY OF RETRAINING ADVISED: Students should be re-trained every semester. Safety passport expire at the end of every semester.	DAILY: WEEKLY: MONTHLY: ANNUALLY: scheduled maintenance two times per year or as required CONTACT FOR REPAIR: handled through board Plant dept.
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NOTE: TEACHER EXPERIENCE AND SAFETY PROFICIENCY IS ASSUMED.	MACHINE GUARDING AND SHIELDING APPLICABLE	[] Teacher DATE:	DETAIL STEPS:	DAILY:
DETAIL EQUIPMENT: Belt & Disc Sander	[X] YES [] NO [] N/A	[X] Board DATE: Fall 2011	<u>Five Step Process:</u>	WEEKLY:
MANUAL APPLICABLE / AVAILABLE (LOCATION):	EMERGENCY STOP / PANIC BUTTON APPLICABLE [X] YES [] NO [] N/A		1. Student attended teacher safety instructions, lessons, demonstration(notes recorded)	MONTHLY:
	LOCK-OUT TAG APPLICABLE [X] YES [] NO [] N/A		2. student passed oral or written assessment (test)	ANNUALLY:
	OTHER (SUBJECT-SPECIFIC) [] YES [] NO [] N/A		3. student demonstrated safe setup and operation of equipment to teacher	scheduled maintenance two times per year or as required
			4. student prepared and delivered power point presentations on all class tools and machines	CONTACT FOR REPAIR:
			5. student granted permission to use equipment	handled through board Plant dept.
			SIGNAGE: safety sign posted by scroll saws	
			RESOURCES: • safety lesson • safety video • safety check • tool powerpoint presentation • manual	
			FREQUENCY OF RETRAINING ADVISED: Students should be re-trained every semester. Safety passport expire at the end of every semester.	

NOTE: TEACHER EXPERIENCE AND SAFETY PROFICIENCY IS ASSUMED. DETAIL EQUIPMENT: Portable Drills MANUAL APPLICABLE / AVAILABLE (LOCATION):	MACHINE GUARDING AND SHIELDING APPLICABLE [] YES [] NO [X] N/A EMERGENCY STOP / PANIC BUTTON APPLICABLE [] YES [] NO [X] N/A LOCK-OUT TAG APPLICABLE [] YES [] NO [X] N/A OTHER (SUBJECT-SPECIFIC) [] YES [] NO [] N/A	[X] Teacher visual and functional inspection on a per use basis [] Board DATE: _____	DETAIL STEPS: <u>Five Step Process:</u> 1. Student attended teacher safety instructions, lessons, demonstration(notes recorded) 2. student passed oral or written assessment (test) 3. student demonstrated safe setup and operation of equipment to teacher 4. student prepared and delivered power point presentations on all class tools and machines 5. student granted permission to use equipment SIGNAGE: N/A RESOURCES: • safety lesson • safety video • safety check • tool powerpoint presentation • manual FREQUENCY OF RETRAINING ADVISED: Students should be re-trained every semester. Safety passport expire at the end of every semester.	DAILY: after use... proper cleaning and storage WEEKLY: MONTHLY: ANNUALLY: CONTACT FOR REPAIR: handled through board Plant dept.
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NOTE: TEACHER EXPERIENCE AND SAFETY PROFICIENCY IS ASSUMED. DETAIL EQUIPMENT: Dremel Tools MANUAL APPLICABLE / AVAILABLE (LOCATION):	MACHINE GUARDING AND SHIELDING APPLICABLE [] YES [] NO [X] N/A EMERGENCY STOP / PANIC BUTTON APPLICABLE [] YES [] NO [X] N/A LOCK-OUT TAG APPLICABLE [] YES [] NO [X] N/A OTHER (SUBJECT-SPECIFIC) [] YES [] NO [] N/A	[X] Teacher visual and functional inspection on a per use basis	DETAIL STEPS: <u>Five Step Process:</u> 1. Student attended teacher safety instructions, lessons, demonstration(notes recorded) 2. student passed oral or written assessment (test) 3. student demonstrated safe setup and operation of equipment to teacher 4. student prepared and delivered power point presentations on all class tools and machines 5. student granted permission to use equipment SIGNAGE: N/A RESOURCES: • safety lesson • safety video • safety passport FREQUENCY OF RETRAINING ADVISED: Students should be re-trained every semester. Safety passport expire at the end of every semester.	DAILY: after use... proper cleaning and storage WEEKLY: MONTHLY: ANNUALLY: CONTACT FOR REPAIR: handled through board Plant dept.
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NOTE: TEACHER EXPERIENCE AND SAFETY PROFICIENCY IS ASSUMED. DETAIL EQUIPMENT: hand tools MANUAL APPLICABLE / AVAILABLE (LOCATION):	MACHINE GUARDING AND SHIELDING APPLICABLE [] YES [] NO [X] N/A EMERGENCY STOP / PANIC BUTTON APPLICABLE [] YES [] NO [X] N/A LOCK-OUT TAG APPLICABLE [] YES [] NO [X] N/A OTHER (SUBJECT-SPECIFIC) [] YES [] NO [] N/A	[X] Teacher visual and functional inspection on a per use basis	DETAIL STEPS: <u>Five Step Process:</u> 1. Student attended teacher safety instructions, lessons, demonstration(notes recorded) 2. student passed oral or written assessment (test) 3. student demonstrated safe use 4. student granted permission to use equipment SIGNAGE: N/A RESOURCES: • safety lesson • safety video • safety passport FREQUENCY OF RETRAINING ADVISED: Students should be re-trained every semester. Safety passport expire at the end of every semester.	DAILY: WEEKLY: MONTHLY: ANNUALLY: CONTACT FOR REPAIR:
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NOTE: TEACHER EXPERIENCE AND SAFETY PROFICIENCY IS ASSUMED. DETAIL EQUIPMENT: small hand saws MANUAL APPLICABLE / AVAILABLE (LOCATION):	MACHINE GUARDING AND SHIELDING APPLICABLE [] YES [] NO [X] N/A EMERGENCY STOP / PANIC BUTTON APPLICABLE [] YES [] NO [X] N/A LOCK-OUT TAG APPLICABLE [] YES [] NO [X] N/A OTHER (SUBJECT-SPECIFIC) [] YES [] NO [] N/A	[X] Teacher visual and functional inspection on a per use basis	DETAIL STEPS: <u>Four Step Process:</u> 1 Student attended teacher safety instructions, lessons, demonstration(notes recorded) 2 student passed oral or written assessment (test) 3 student demonstrated safe setup and operation of equipment to teacher 4 student granted permission to use equipment SIGNAGE: N/A RESOURCES: • safety lesson • safety video • safety passport FREQUENCY OF RETRAINING ADVISED: Students should be re-trained every semester. Safety passport expire at the end of every semester.	DAILY: WEEKLY: MONTHLY: ANNUALLY: CONTACT FOR REPAIR:
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NOTE: TEACHER EXPERIENCE AND SAFETY PROFICIENCY IS ASSUMED. DETAIL EQUIPMENT: knives (utility, ex-acto, etc.) MANUAL APPLICABLE / AVAILABLE (LOCATION):	MACHINE GUARDING AND SHIELDING APPLICABLE [] YES [] NO [X] N/A EMERGENCY STOP / PANIC BUTTON APPLICABLE [] YES [] NO [X] N/A LOCK-OUT TAG APPLICABLE [] YES [] NO [] N/A OTHER (SUBJECT-SPECIFIC) [] YES [] NO [] N/A	[] Teacher DATE: _____ [] Board DATE: _____	DETAIL STEPS: <u>Four Step Process:</u> 1 Student attended teacher safety instructions, lessons, demonstration(notes recorded) 2 student passed oral or written assessment (check) 3 student demonstrated safe setup and operation of equipment to teacher 4 student granted permission to use equipment SIGNAGE: N/A RESOURCES: • safety lesson • safety video • safety passport FREQUENCY OF RETRAINING ADVISED: Students should be re-trained every semester. Safety passport expire at the end of every semester.	DAILY: WEEKLY: MONTHLY: ANNUALLY: CONTACT FOR REPAIR:
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NOTE: TEACHER EXPERIENCE AND SAFETY PROFICIENCY IS ASSUMED. DETAIL EQUIPMENT: scissors and shears MANUAL APPLICABLE / AVAILABLE (LOCATION):	MACHINE GUARDING AND SHIELDING APPLICABLE [] YES [] NO [] N/A EMERGENCY STOP / PANIC BUTTON APPLICABLE [] YES [] NO [] N/A LOCK-OUT TAG APPLICABLE [] YES [] NO [] N/A OTHER (SUBJECT-SPECIFIC) [] YES [] NO [] N/A	[] Teacher DATE: _____ [] Board DATE: _____	DETAIL STEPS: <u>Four Step Process:</u> 1 Student attended teacher safety instructions, lessons, demonstration(notes recorded) 2 student passed oral or written assessment (check) 3 student demonstrated safe setup and operation of equipment to teacher 4 student granted permission to use equipment SIGNAGE: N/A RESOURCES: • safety lesson • safety video • safety passport FREQUENCY OF RETRAINING ADVISED: Students should be re-trained every semester. Safety passport expire at the end of every semester.	
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