

# Model Technology Systems Project

## The Michigan and Ohio Technology Education Consortium

### Middle Grades Technology Education

Objective	Middle Grades Technology Education Activity	LEGO Dacta Products	LEGO Dacta Activities
<i>"Evolution of Technology"</i>	M-1 (P) "Early Technical Devices"	#9603, #1030	Exploration #17, "Riding the Wind", page 42
			Guided Investigation #17, page 60 #18, page 61
			Application: Simulation #26, "Propeller Power", page 90 #27 "Breezy", page 91
<i>"Using Technology to Solve Problems"</i>	M-3 (P) "Rubber Band Powered Vehicles"	#9603, #1030	Application: Invention #33 "Well, Well", page 129 #35 "Water Way", page 131
			Exploration #19 "Stretch Limo" #19, "Stretch Limo", page 43
			Application: Simulation #26 "Propeller Power", page 90
<i>"Using Technology to Solve Problems"</i>	M-3 (I) "Load-Bearing Structure Design Problem"	#9603, #1030	Application: Invention #31 "Ready, Set, Go!", page 127 #32 "Stretch Power", page 128 #36 "Run and Swim", page 132
			Exploration #1 "The Secret Tower", page 32 #2 "Over the Water", page 32 #3 "Blocks Away!", page 33 #4 "Where's the Gate?", page 33
			Guided Investigation #3, page 46
<i>"Using Technology to Solve Problems"</i>	M-3 (I) "Load-Bearing Structure Design Problem"	#9603, #1030	Application: Simulation #1 "Steady There", page 65 #2 "Beach Comfort", page 66 #3 "Picnic Fun", page 67 #4 "Knock, Knock", page 68 #5 "Up and Over", page 69
			Application: Invention #1 "A Better Mousetrap", page 97 #2 "Good Knight!", page 98 #3 "The Crowning Touch", page 99 #5 "Low Bridge", page 101 #6 "Information Please", page 102
		#9608, #9607	Guided Investigation #13 "Crane Model", page 35 #15 "Forklift", page 51

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<i>"Technology Similarities"</i>	M-4 (I) "Basic Security Detection Systems"		Application: Simulation #4 "Scaffold Winch", page 36 #7 "Three Wheeled Mover", page 52
			Application: Invention #1 "I'm All Wet", page 19 #4 "Over Three", page 37
		#958, #968	Construction Activity "Get Over It"
		#976, #977	Application: Invention #1 "Uplifting Experience", page 48
		#942, #943	"Bridge"
		#9603, #1030	Application: Invention #3, "The Crowning Touch" page 99
		#9608, #9607	Application: Invention "Come On In", page 49
		#958, #968	Communication Activity "Top Secret"
<i>"Technology Similarities"</i>	M-4(B) "Simulating Handicapping Conditions"	#9603, #1030	Application: Simulation #10, "Open Sesame", page 74
			Application: Invention #9, "Rain and Cold", page 105 #12, "Reach Out", page 108
		#9606, #9604	Application: Simulation #1, "Open Wide", page 14 #3, "Patient Pick-Up", page 15
			Application: Invention #1, "Drink Up", page 17
		#958, #968	Production/Manufacturing Activity "Put It There"
<i>"How Technology Affects All Life"</i>	M-5 (I) "Communicating a Message"	#9603, #1030	Exploration #9, "Warning!", page 36
			Application: Invention #6, "Information Please", page 102 #19, "Come to the Circus!", page 115
		#958, #968	Communication Activity "Can Scan" "No Show"
<i>"Processing Technology Resources"</i>	M-7 (P) "Converting Energy Resources Into Electrical Energy"	#9603, #1030	Exploration #19, "Stretch Limo", page 43 #20, "Balloon Blastoff", page 43
			Application: Simulation #25, "Ahoy!", page 89 #26, "Propeller Power", page 90

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<i>"Feedback and Control of Technology Systems"</i>	M-8 (1-2) "Controlling Technical Systems"		#27, "Breezy", page 91
			Application: Invention #31, "Ready, Set, Go!", page 127 #32, "Stretch Power", page 128 #33, "Well, Well", page 129 #34, "Go Power", page 130 #35, "Water Way", page 131
		#917, #1032	Unit 4: Exploration #3, page 78  Unit 4: Investigation #2, page 80  Unit 4: Invention #1, page 82
		#976, #977	Unit 3: Exploration #1, page 51
		#958, #968	Production/Manufacturing Activity, "In A Pinch" Production/Manufacturing Activity, "Put It There"
		#976, #977	Trundle On, Time Flies, Crank It Up
		#942, #943	"Robot Arm", "Motorized Car and Dynamometer" "Temperature Controlled Greenhouse", "Code Reader"
		#958, #968	Transportation Activity, "Walk the Line" Production/Construction Activity, "Moving Wall" Production/Manufacturing Activity, "How Many?"
		#976, #977	Dactamobile, Robotrike, Dactasaur, Zipping Along, Hi Ho Horsepower, Uplifting Experience
		#942, #943	"Robot Arm", "Motorized Car and Dynamometer" "Temperature Controlled Greenhouse", "Code Reader"
<i>"Creative Solutions to Present and Future Problems"</i>	M-8 (P) "Sensors and Controls, The Ultimate System"	#917, #1032	Unit 4: Invention #1, page 82
		#958, #968	Communication Activity "Can Scan"
	M-10 (I) "Communicating Without Words"		