Washington Township School District					
STEM/Makerspace Curriculum					
Grade:	4	Mystery Science Unit/Project Title:	Human Machine Adaptive Device		
NJ Learning Standard(s): 4-ETS1-1, LS1.A					
Objective:		SWBAT engineer a technology to solve a problem.			
STEM/ Unit Activities		Adaptive Device Design			
Suggested Assessments:		 Adaptive device organizer Journal Writing 			
Supplies Needed:		 One pair of sunglasses (either old or inexpensive new) Eyeglass Repair Kit (including mini screwdriver, replacement screws, and if possible a magnifying glass 			
Resources to Support Unit:		http://tryengineering.org/lesson-plans/adaptive-device-design Adaptive Devices Full Teacher Lesson Plan Adaptive Devices Student Worksheet			
		Adaptive Devices Student Works	neet		

Washington Township School District						
STEM/Makerspace Curriculum						
Grade:	4	Mystery Science	Human Machine			
Graue.		Unit/Project Title:	Working Lung			
NJ Learning Standard(s): 4-PS4-3.ETS1.C.1, 4-LS1-1						
Objective:		 SWBAT: Discover how the lungs work Construct a lung model using common household items 				
STEM/ Unit Activities		Build a Lung Model (suggestion: rather than giving the students directions on how to build the lung, give them the materials and have them come up with a way to build a "working" lung)				
Suggested Assessments:		Exit TicketJournal				
Supplies Needed:		 empty 2-liter bottle plastic bag (trash bag or t thick rubber band balloon drinking straw masking tape modeling clay scissors 	hick grocery bag)			
Resource Support		https://www.homescienceto	ols.com/learning-center/build-lung-model-science-project ols.com/a/how-lungs-work			

Washington Township School District					
STEM/Makerspace Curriculum					
Grade:	4	Mystery Science	The Human Machine		
Grade.	4	Unit/Project Title:	Mystery 4: How Does Your Brain Control Your Body?		
NJ Learning Standard(s):	4-LS1	-1, 4-LS1-1.A			
Objective:		SWBAT engineer a helmet t	to protect a model brain (egg) during a fall.		
STEM/ Unit Activities	s	The Egghead Helmet Experi	iment		
Suggested Assessments:		Data TableDesign Sheet			
Supplies Needed:		 Eggs Measuring tapes Plastic straws Clear tape Masking tape Index cards Bubble mailers Art tissue paper String Cotton balls Small plastic cups Facial tissues Pipe cleaners Bubble wrap Wrapping paper Cardboard Plastic containers Rubber bands Large trash bags Paper towels for cleanup 			
Resources to		Egghead Helmet Experiment (General Overview: Grades 4-5		

Support Unit:	Egghead Helmet Experiment Student Worksheet: Grades 4-5

