

INVENTION PROJECT MODULE THEMES AND IMPLEMENTATION GUIDELINES

All Invention Project® modules are designed to meet national and state education standards. Our cross-curricular programs help students build the I Can Invent® Mindset — a growth mindset encompassing essential life skills. Invention Project modules are available in Spanish and feature real-world examples of phenomena science.

This page provides additional details on aspects unique to each module.

SUGGESTED GRADE LEVEL PREK-1		HOURS 6-7.5			
MODULE	THE MYSTERY PRESENT	POD PALS™	ROBOTIC AQUATICS™	SHAKE, RATTLE & ROLL™	ZOOM
CURRICULAR FOCUS					
Art				✓	
College and Career Readiness	✓	✓	✓	✓	✓
English Language Arts	✓	✓	✓	✓	✓
Mathematics	✓	✓	✓	✓	
NGSS Aligned	✓	✓	✓	✓	✓
STEM CONCEPTS AND THEMES					
Biology			✓	✓	
Electronics & Circuitry	✓				
Engineering Design	✓		✓		✓
Entrepreneurship			✓		
Environmental Science					
Flight & Space		✓			
Geography	✓				
Physics		✓		✓	✓
Reverse Engineering					
Robotics	✓				
IMPLEMENTATION NEEDS & RECOMMENDATIONS					
Benefits From Recyclables		✓		✓	
Needs Large Space/Storage					
Works Well in Small Space	✓	✓	✓	✓	✓
Requires Water	✓		✓		✓

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SUGGESTED GRADE LEVEL 1-3		HOURS 6-7.5			
MODULE	LOST TREASURE™	PLOT COASTERS™	ROBOTIC PET VET™	SOLARBOT™	STICK TO IT™
CURRICULAR FOCUS					
Art				✓	
College and Career Readiness	✓	✓	✓	✓	✓
English Language Arts	✓	✓			
Mathematics					
NGSS Aligned	✓	✓	✓	✓	✓
STEM CONCEPTS AND THEMES					
Biology	✓		✓	✓	
Electronics & Circuitry				✓	
Engineering Design		✓	✓		✓
Entrepreneurship					✓
Environmental Science				✓	
Flight & Space					
Geography					
Physics		✓		✓	✓
Reverse Engineering			✓		
Robotics			✓		
IMPLEMENTATION NEEDS & RECOMMENDATIONS					
Benefits From Recyclables		✓			
Needs Large Space/Storage		✓			
Works Well in Small Space			✓	✓	
Requires Water		✓			

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SUGGESTED GRADE LEVEL 2-5		HOURS 6-7.5				
MODULE	FLIGHT LAB™	INNOVATION FORCE®	NIH'S THE ATTIC™	BOT ANN-E™	CHAMPIONS	OPTIBOT™
CURRICULAR FOCUS						
Art			✓			
College and Career Readiness	✓	✓	✓	✓	✓	✓
English Language Arts		✓				
Mathematics	✓				✓	✓
NGSS Aligned	✓	✓	✓	✓	✓	✓
STEM CONCEPTS AND THEMES						
Biology				✓		✓
Electronics & Circuitry			✓			
Engineering Design		✓	✓		✓	
Entrepreneurship		✓			✓	
Environmental Science				✓		
Flight & Space	✓					
Geography						
Physics	✓				✓	
Reverse Engineering	✓					
Robotics	✓		✓	✓		✓
IMPLEMENTATION NEEDS & RECOMMENDATIONS						
Benefits From Recyclables	✓					
Needs Large Space/Storage	✓			✓	✓	✓
Works Well in Small Space		✓	✓			
Requires Water			✓			

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SUGGESTED GRADE LEVEL 4-6				HOURS 6-7.5				
MODULE	DESIGN THINKING PROJECT™	DIY ORBOT™	DUCK CHUCK™	FAIR GAMES™	MARBLE ARCADE™	OPEN MIC™	RESCUE SQUAD	STEM MAKER LAB®
CURRICULAR FOCUS								
Art	✓	✓				✓		
College and Career Readiness	✓	✓	✓	✓	✓	✓	✓	✓
English Language Arts	✓					✓		
Mathematics			✓	✓				
NGSS Aligned	✓	✓	✓	✓	✓	✓	✓	✓
STEM CONCEPTS AND THEMES								
Biology			✓				✓	✓
Electronics & Circuitry		✓				✓	✓	✓
Engineering Design	✓	✓		✓	✓	✓		✓
Entrepreneurship	✓		✓			✓		✓
Environmental Science							✓	
Flight & Space								
Geography			✓					
Physics		✓	✓	✓	✓		✓	
Reverse Engineering		✓				✓		
Robotics		✓						
IMPLEMENTATION NEEDS & RECOMMENDATIONS								
Benefits From Recyclables	✓	✓	✓					✓
Needs Large Space/Storage		✓	✓	✓	✓			
Works Well in Small Space	✓					✓	✓	✓
Requires Water			✓					

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SUGGESTED GRADE LEVEL 5-8					HOURS 6-7.5			
MODULE	CIRCUIT SCULPTURES™	E-BIRDS	FLY GLIDERS™	NIHF'S AUTOMOTIVE DESIGN 101™	RC ORIGAMI BOT™	ROAD RALLY™	SPACECATION™	WEAR IT OUT™
CURRICULAR FOCUS								
Art	✓			✓			✓	✓
College and Career Readiness	✓	✓	✓	✓	✓	✓	✓	✓
English Language Arts				✓			✓	✓
Mathematics						✓	✓	✓
NGSS Aligned	✓	✓	✓	✓	✓	✓	✓	✓
STEM CONCEPTS AND THEMES								
Biology		✓				✓		✓
Electronics & Circuitry	✓	✓		✓	✓	✓		✓
Engineering Design	✓			✓				✓
Entrepreneurship	✓			✓				✓
Environmental Science						✓		
Flight & Space		✓	✓				✓	
Geography								
Physics	✓		✓		✓	✓	✓	
Reverse Engineering								
Robotics					✓			
IMPLEMENTATION NEEDS & RECOMMENDATIONS								
Benefits From Recyclables		✓			✓			✓
Needs Large Space/Storage		✓	✓					
Works Well in Small Space	✓			✓				✓
Requires Water						✓	✓	