

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	DIY ORBOT™	FAIR GAMES™	OPEN MIC™	RESCUE SQUAD™
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™	DESIGN THINKING PROJECT™	DUCK CHUCK™	E-BIRDS	FLYGLIDERS™	MARBLE ARCADE™	NIHF SAUTOMOTIVE DESIGN 101™	RC ORIGAMI BOT™	ROAD RALLY™	SPACECATION™	STEM MAKER LAB®	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			✓						✓	✓		