

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	POD PALS™	ROBOTIC AQUATICS™	SHAKE, RATTLE & ROLL™
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™
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®	NIHF'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™	OPEN MIC™
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	E-BIRDS	FLY GLIDERS™	RC ORIGAMI BOT™	ROAD RALLY™	SPACECATION™
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				✓	✓