Invention Project®

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			✓
Durable Skills	✓	✓	✓
English Language Arts	✓	✓	✓
Mathematics	✓	✓	✓
NGSS Aligned	✓	✓	✓
Workforce Development	✓	✓	✓
STEM CONCEPTS AND THEMES			
Computing and Technology Concepts			✓
Earth and Space Science	✓		
Engineering Design		✓	
Entrepreneurship		✓	
Intellectual Property		✓	
Life Science		✓	✓
Physical Science	✓		✓
IMPLEMENTATION NEEDS & RECOMMENDATIONS			
Contains Activities that Require 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				✓
Durable Skills	✓	✓	✓	✓
English Language Arts	✓	✓		
NGSS Aligned	✓	✓	✓	✓
Workforce Development	✓	✓	✓	✓
STEM CONCEPTS AND THEMES				
Computing and Technology Concepts			✓	
Earth and Space Science	✓			
Electronics & Circuitry			✓	✓
Engineering Design		✓	✓	
Environmental Science				✓
Life Science	✓		✓	✓
Physical Science		✓		✓
Reverse Engineering			✓	
IMPLEMENTATION NEEDS & RECOMMENDATIONS				
Contains Activities that Require Water		✓		
Needs Large Space/Storage		✓		

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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			✓			
Durable Skills	✓	✓	✓	✓	✓	✓
English Language Arts		✓				
Mathematics	✓				✓	✓
NGSS Aligned	✓	✓	✓	✓	✓	✓
Workforce Development	✓	✓	✓	✓	✓	✓
STEM CONCEPTS AND THEMES						
Computing and Technology Concepts	✓		✓	✓		✓
Earth and Space Science	✓					
Electronics & Circuitry			✓			
Engineering Design		✓	✓		✓	
Entrepreneurship		✓			✓	
Environmental Science				✓		
Intellectual Property	✓	✓	✓	✓	✓	✓
Life Science				✓		✓
Physical Science	✓				✓	
Reverse Engineering	✓					
IMPLEMENTATION NEEDS & RECOMMENDATIONS						
Contains Activities that Require Water			✓			
Needs Large Space/Storage	✓			✓	✓	✓

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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	✓	✓			✓
Durable Skills	✓	✓	✓	✓	✓
English Language Arts	✓				✓
Mathematics			✓	✓	
NGSS Aligned	✓	✓	✓	✓	✓
Workforce Development	✓	✓	✓	✓	✓
STEM CONCEPTS AND THEMES					
Computing and Technology Concepts		✓			
Electronics & Circuitry		✓			✓
Engineering Design	✓	✓		✓	✓
Entrepreneurship	✓		✓		✓
Intellectual Property	✓				✓
Life Science			✓		
Physical Science		✓	✓	✓	
Reverse Engineering		✓			✓
IMPLEMENTATION NEEDS & RECOMMENDATIONS					
Contains Activities that Require Water			✓		
Needs Large Space/Storage		✓	✓	✓	

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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					✓
Durable Skills	✓	✓	✓	✓	✓
English Language Arts					✓
Mathematics				✓	✓
NGSS Aligned	✓	✓	✓	✓	✓
Workforce Development	✓	✓	✓	✓	✓
STEM CONCEPTS AND THEMES					
Computing and Technology Concepts	✓		✓		
Earth and Space Science	✓	✓			✓
Electronics & Circuitry	✓		✓	✓	
Environmental Science				✓	
Life Science	✓			✓	
Physical Science		✓	✓	✓	✓
IMPLEMENTATION NEEDS & RECOMMENDATIONS					
Contains Activities that Require Water				✓	✓
Needs Large Space/Storage	✓	✓			