

Ohio Invention Convention Pacing Guide 8 Weeks

	Topic	Activity	Materials
Week 1	Introduction to Inventing	What is invention? Top 10 Inventions Explanation of the Invention Process Introduction to the Invention Log	Access to the internet Notebooks writing utensils (Note: once students are introduced to the Invention Log, they should have it with them every day.)
Week 1 and 2	Identifying	SCAMPER Object Every Day Ask your Adults! Discuss the problems they are hearing about Research your problem	Everyday objects
Week 3	Understanding	Research your problem Does my solution already exist?	Access to the internet
	Ideating	Introduction of the Judging Rubric Intent to Invent	Copies of Judging Rubric
Week 4, 5, 6	Designing	Take Apart	Wind-up toys to take apart
	Building	Marble Spill/Nuclear Waste/Garbage Spill	Materials for students to build with (e.g. construction paper, paper clips, clay, etc.)
		Design your Prototype Show Off your design	Invention Logs and writing utensils
	Building	Build your Prototype Show off your prototype	Building/craft materials
	Testing	Paper Airplane Fun	Paper, different types to make paper airplanes out of
		Test your Prototype	Student prototypes
	Iterating	How can I Improve my Design? Time to Make Changes	Prototypes
		Repeat the Engineering Cycle	Prototypes and building materials
Week 7, 8	Communicating	Display Board Design	Display boards, computer and printer access, scissors, glue
		What Should I Say? Script your Presentation	Paper and writing utensils or access to computer
		Invention Log Clean Up/Finish Up	Prototype, display board, log
	Wrap Up	Practice Presentation with Peers	Prototype, display board, log
		Make any and all final touches	Prototype, display board, log