

Pacing Guide for Ohio Invention Convention

Week	Session	Topic	Activity	Materials
1	1	Introduction to Inventing	What is invention? Top 10 Inventions	Access to the internet
	2		Finish Top 10 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.)
2	1	Identifying	SCAMPER Object Every Day Ask your Adults!	Everyday objects
	2		Object Every Day Discuss the problems they are hearing about Research your problem	Everyday objects
3	1	Understanding	Research your problem Does my solution already exist?	Access to the internet
	2		Does my solution already exist?	Access to the internet
4	1	Ideating	Introduction of the Judging Rubric Intent to Invent	Copies of Judging Rubric
	2	Designing	Take Apart	Wind-up toys to take apart
5	1		Nuclear Waste/Garbage Spill	Materials for students to build with (e.g. construction paper, paper clips, clay, etc.)
	2		Design your Prototype Show Off your Design	Invention Logs and writing utensils
6	1	Building and Testing	Build your Prototype	Building/craft materials
	2		Build your Prototype	Building/craft materials
7	1		Test your Prototype	Completed student prototypes
	2	Iterating	How can I Improve my Design? Time to Make Changes	Prototypes
8	1		Repeat the Engineering Cycle	Prototypes and building materials
	2	Communicating	Display Board Design	Display boards, computer and printer access, scissors, glue
9	1		What Should I Say? Script your Presentation	Paper and writing utensils or access to computer
	2		Invention Log Clean Up/Finish Up	Prototype, display board, log
10	1	Wrap Up	Practice Presentation with Peers	Prototype, display board, log
	2		Make any and all final touches	Prototype, display board, log

Based on 2 sessions a week/90 min. a session.