

## ABOUT OHIO'S LEARNING STANDARDS

[Ohio's Learning standards](#) explain the knowledge and skills Ohio students in pre-kindergarten through grade 12 need to have. Ohio's Learning Standards emphasize skills like critical thinking and problem solving — qualities most sought by today's employers. By teaching our students to apply these skills to what they are learning in school, we can make sure they are on track to graduate from high school and enjoy success in college, careers and life.

Ohio measures the performance of its schools based on how well students are progressing in gaining the knowledge and skills within the learning standards. We do this partly by measuring student performance on annual state tests based on the standards. Activities aligned to Ohio's Learning Standards help educators in delivering content that will support student achievement.

Below are some of the learning standards that Ohio Manufacturing Day activities align to. While there are many more in additional subject areas, these standards are a great start!

Activity	HS Science	MS Science	Algebra	Geometry	MS English	HS English
<b>Appalachian Ohio Manufacturers' Coalition STEM Contest</b>	PS.FM.3: Dynamics (how forces affect motion)	7.PS.4. Energy can be transferred through a variety of ways.	A.REI.2 Understand solving equations as a process of reasoning and explain the reasoning.	G.MG.3 Apply geometric methods to solve design problems, e.g., designing an object or structure to satisfy physical constraints or minimize cost; working with typographic grid systems based on ratios.		
<b>Food Industry Panel</b>	Career panels align to "The Nature of Science"	Career panels align to "The Nature of Science"			SL.8.1 Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.	SL.11-12.1 Initiate and participate effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grades 11–12 topics, texts, and issues, building on others' ideas and expressing their own clearly and persuasively.
<b>Junior Achievement Teachers Guide</b>					SL.8.1 Engage effectively in a range of collaborative discussions (one-on-one, in groups, and teacher-led) with diverse partners on grade 8 topics, texts, and issues, building on others' ideas and expressing their own clearly.	W.11-12.2 Write informative/explanatory texts to examine and convey complex ideas, concepts, and information clearly and accurately through the effective selection, organization, and analysis of content.