

WORKKEYS® FORTOMORROW'SWORKFORCE

Today's students are tomorrow's workforce. We are responsible for preparing them with the foundational skills they need for success in their education and career goals.

Our subject matter experts teamed with **ACT® WorkKeys®** to profile **STEM Expeditions®** to show how the program develops skills, readies students for workforce training, and prepares them for **ACT WorkKeys Assessments**. Expedition lessons, logbooks, and learning resources were evaluated to:

- 1. Identify the **WorkKeys skills** required to accomplish the learning objectives.
- 2. Identify how the skills are used during the **STEM Expedition**.



In the workplace, we are really struggling to find people who have the necessary skill level in workplace graphics – reading charts, maps, and graphs. These Expeditions are really, really teaching that skill. There's a direct link in what students are going to find in those Expeditions and what they're going to find on the job.

Mary Paramore, ACT certified profiler

Applied Math

WorkKeys Applied Math is the skill people use when they apply mathematical reasoning and problem-solving techniques to solve work-related problems. Employees might use calculators and conversion tables to help with the problems, but they still need to use math skills to think them through.

Graphic Literacy

WorkKeys Graphic Literacy is the skill people use when they work with workplace graphics such as tables, graphs, charts, digital dashboards, flowcharts, timelines, forms, maps, and blueprints. Employees use this skill when they find, summarize compare, and analyze information to make decisions using workplace graphics to solve work-related problems.

Workplace Documents

WorkKeys Workplace Documents is the skill employees use when they read and use written text in order to do a job. The written texts include messages, emails, letters, directions, signs, notices, bulletins, policies, websites, contracts, and regulations. It is often the case that these workplace communications are not necessarily well written or targeted to the appropriate audience.

Dynamic Disasters STEM Expedition sample:

SKILL-LEVEL RANGE	ENTRY LEVEL	EXIT LEVEL	SKILL-LEVEL RANGE	ENTRY LEVEL	EXIT LEVEL	SKILL-LEVEL RANGE	ENTRY LEVEL	EXIT LEVEL
3-7	6	6	3-7	3	4	3-7	3	4

Entry level is defined as the students' first day in the program, before they gain program-specific knowledge from training or experience.

Exit level is the point at which a student has successfully completed the training requirements. The exit levels are provided for use as learning goals.

ACT WorkKeys Skill-Level Growth by STEM Expedition

Title	Applied Math			Graphic Literacy			Workplace Documents		
	Skill-Level Range	Entry Level	Exit Level	Skill-Level Range	Entry Level	Exit Level	Skill-Level Range	Entry Level	Exit Level
A Closer Look	3-7	3	3	3-7	3	4	3-7	3	3
Ahead of the Game	3-7	4	4	3-7	3	3	3-7	3	3
Animals, Plants, and Populations	3-7	3	4	3-7	3	4	3-7	NA/Below Level 3	NA/Below Level 3
Artificial Ecosystems	3-7	4	4	3-7	3	4	3-7	3	3
Beyond Earth	3-7	NA/Below Level 3	NA/Below Level 3	3-7	4	4	3-7	3	3
Bio Research	3-7	3	4	3-7	3	4	3-7	3	3
Body Blueprint	3-7	4	4	3-7	3	3	3-7	3	3
Building Bridges	3-7	3	3	3-7	3	3	3-7	3	3
Communications	3-6	NA/Below Level 3	NA/Below Level 3	3-7	3	5	3-7	3	3
Contraptions	3-7	4	5	3-7	3	4	3-7	3	3
Creative Composites	3-7	3	4	3-7	3	4	3-7	3	3
Cultivating Our Future	3-7	4	4	3-7	3	4	3-7	3	3
Design Time	3-7	3	4	3-7	3	4	3-7	3	3
Dragster Design	3-7	4	4	3-7	3	4	3-7	3	3
Dynamic Disasters	3-7	6	6	3-7	3	4	3-7	3	4
Electric Tech	3-7	4	5	3-7	3	4	3-7	3	3
Engineering Rockets	3-7	4	4	3-7	3	4	3-7	4	4
Everyday Electricity	3-7	4	5	3-7	3	4	3-7	3	3
Flight Dynamics	3-7	4	4	3-7	3	4	3-7	3	3
Fueling the Future	3-7	3	3	3-7	3	4	3-7	3	3
Future Footprints	3-7	3	3	3-7	3	3	3-7	3	3
Get a Grip	3-6	NA/Below Level 3	NA/Below Level 3	3-7	3	3	3-7	3	3
Growing Up	3-7	3	3	3-7	3	3	3-7	3	3
Innovating Solutions	3-7	NA/Below Level 3	NA/Below Level 3	3-7	3	3	3-7	3	3
Looks Like Rain	3-7	3	3	3-7	3	3	3-7	3	3
Making Waves	3-7	3	3	3-7	3	4	3-7	3	3
Mining Mechanics	3-7	4	4	3-7	3	3	3-7	3	3
Optical Solutions	3-7	4	4	3-7	4	5	3-7	3	3
Projecting Light	3-7	4	4	3-7	4	5	3-7	NA/Below Level 3	NA/Below Level 3
Rolling Robots	3-7	4	6	3-7	3	4	3-7	3	3
Safe Food	3-7	NA/Below Level 3	NA/Below Level 3	3-7	4	5	3-7	3	3
Taking Control	3-7	NA/Below Level 3	NA/Below Level 3	3-7	3	3	3-7	3	3
Theme Park Physics	3-7	4	5	3-7	3	3	3-7	NA/Below Level 3	NA/Below Level 3
Thermal Physics	3-7	4	4	3-7	3	4	3-7	3	3
Tower Power	3-7	3	3	3-7	3	3	3-7	3	3
Transportation Stations	3-7	3	4	3-7	3	4	3-7	3	3
Urban Wind Farm	3-7	4	4	3-7	3	4	3-7	NA/Below Level 3	NA/Below Level 3

Note: Students do not receive WorkKeys certification upon completing a STEM Expedition or upon completing a course containing STEM Expeditions. WorkKeys scores simply indicate that a student should begin or enter the title with the entry level score and, upon successful completion of the title, have the skills to obtain the exit level score.