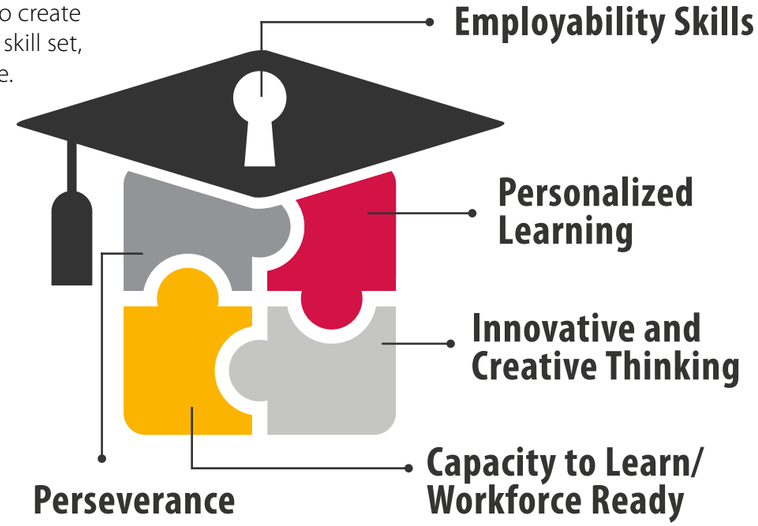
PEA RIDGE SCHOOL DISTRICT

PREP
PEA RIDGE EXPLORATION OF PATHWAYS

THE PEA RIDGE WAY

The Pea Ridge Way is the foundation to create graduates equipped with the tool set, skill set, and mind-set necessary for their future.

1. **Success Preparation** (Educational Attainment)
2. **Learning-Support School Environment** (Educational Attainment, Workforce Readiness)
3. **High-Quality Service from Staff** (Educational Attainment, Workforce Readiness)
4. **Active Participation from Community and Parents** (Economic Development, Educational Attainment)



School and community hold the key to a personalized, uncommon education for all.

PREP

Pea Ridge Exploration of Pathways (PREP) is a hands-on STEM initiative for Grades K-8 that introduces and cultivates employability skills and leads into the 10 college and career pathways at the high school.

PRMBA

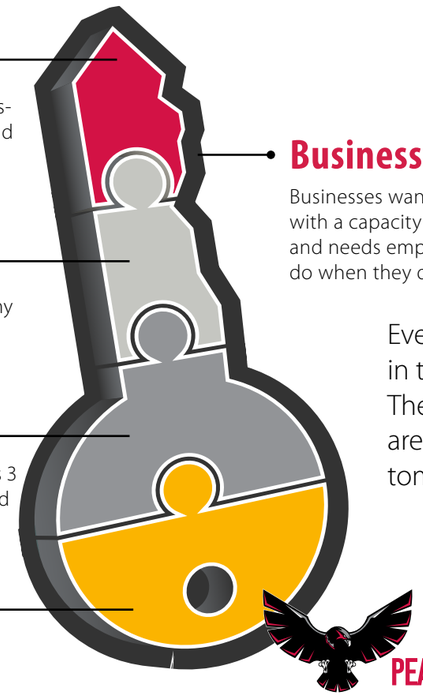
Pea Ridge Manufacturing and Business Academy (PRMBA) offers specialized courses that aren't normally found in public schools.

ACT® Aspire®

ACT® Aspire® maps learner progress from Grades 3 through high school on a vertical scale, anchored to the scoring system of the ACT.

ACT WorkKeys®

WorkKeys® assessments measure a range of hard and soft skills relevant to any occupation.

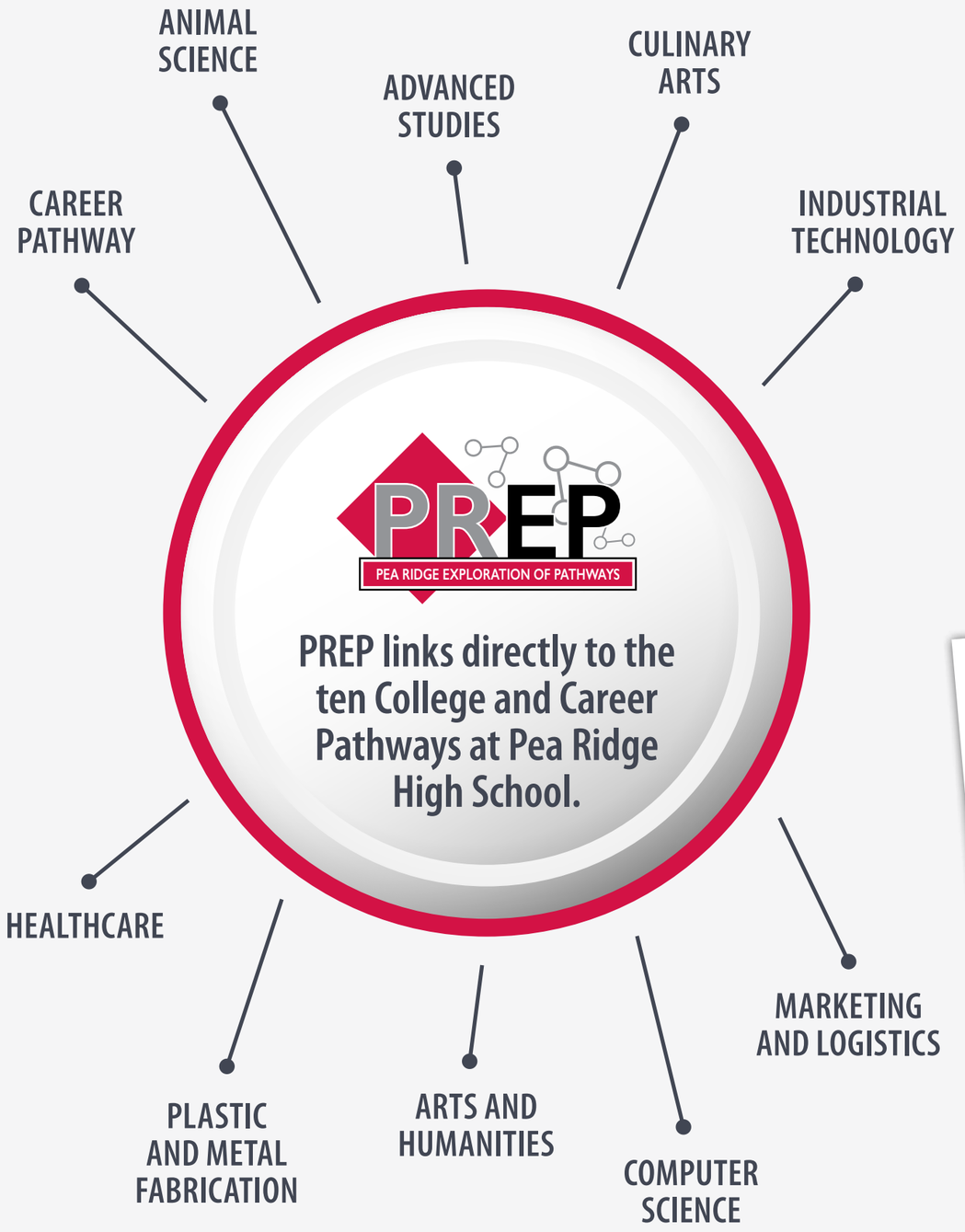


Business and Industry

Businesses want and need employees with a capacity to learn. Industry wants and needs employees who know what to do when they don't know what to do.

Everything merges in the workplace. The students of today are the workforce of tomorrow.

PEA RIDGE SCHOOL DISTRICT



HIGHLIGHTS:

- Beginning in kindergarten and continuing through eighth grade, PREP **cultivates employability skills**.
- Curriculum aligns to Next Generation Science Standards (NGSS) and College and Career Readiness Standards
- Students experience **hands-on personalized learning strategies**.
- Students are exposed to **more than 300 different careers**.

ELEMENTARY – PRIMARY

Curriculum Offerings	Advanced Studies	Agriculture/Animal Science	Arts & Humanities	Culinary Arts/Food Science	Education	Health Care	Industrial Technology	Logistics/Marketing	Manufacturing/Plastic & Metal Fabrication	Robotics/Coding/ Computer Science	Pathway Careers Covered in Curriculum	Additional Careers Covered in Curriculum
STEM Units												
Exploring Structures for Animals	X	X					X				**Specific careers are not referenced in the Grades K-2 curriculum and activities.**	
Exploring Heated Air	X			X			X					
Exploring Structures in Literature	X		X		X		X	X				
Exploring Flight	X						X	X				
Exploring Packages	X		X				X	X	X			
Exploring Transportation	X						X	X				
Exploring Air	X	X				X	X					
Robotics/Coding												
KUBO	X									X	**Specific careers are not referenced in the Grades K-2 curriculum and activities.**	

*Industrial Technology is marked for all STEM Units because they cover the engineering design process.

ELEMENTARY – INTERMEDIATE

Curriculum Offerings	Advanced Studies	Agriculture/Animal Science	Arts & Humanities	Culinary Arts/Food Science	Education	Health Care	Industrial Technology	Logistics/Marketing	Manufacturing/Plastic & Metal Fabrication	Robotics/Coding/ Computer Science	Pathway Careers Covered in Curriculum	Additional Careers Covered in Curriculum
Missions												
Being Healthy	X	X				X				X	Genetic Engineer, Cryptologist, Pet Psychologist, Taxidermist	
Ecology	X	X				X					Wildlife Biologist, Animal Care Assistant, Police Dog Handler, Animal Welfare Inspector	
Electricity	X						X			X	Electrical Engineer, Automotive Engineer, IT Support Tech, Robotics Designer	
Environment and Climate	X	X			X		X				Land Surveyor, Math Teacher	Astrophysicist, Data Analyst
Forces	X		X				X	X			Architect, Civil Engineer, Construction Management, Set Designer	
Fossils and Survival	X	X			X			X			Conservator, Museum Curator, Museum Educator	Archaeologist

Curriculum Offerings	Advanced Studies	Agriculture/Animal Science	Arts & Humanities	Culinary Arts/Food Science	Education	Health Care	Industrial Technology	Logistics/Marketing	Manufacturing/Plastic & Metal Fabrication	Robotics/Coding/ Computer Science	Pathway Careers Covered in Curriculum	Additional Careers Covered in Curriculum
Missions												
Magnetism	X						X		X		Mechanic, Welder, Motorsports Engineer, Electrician	
Matter	X			X		X					Pharmacist, Doctor, Food Scientist	Laboratory Technician
Motion	X					X	X				Sports Scientist, Materials Scientist, Environmental Scientist	Pilot
Science Skills	X				X						Teacher, Tour Guide, Researcher	Archivist
Seasons and Weather	X		X							X	Website Designer	Forensic Scientist, Meteorologist, Oceanographer
Skyscrapers	X						X	X	X	X	Software Developer, Structural Engineer, Product Designer, Market Researcher	
Amazing Body	X			X		X					Medical Technologist, Nutritionist, Pharmacist, Chemist	
Design and Solutions	X						X	X	X		Real Estate Agent, Urban Planner, Manufacturing Engineer, Venture Capitalist	
Earth Processes	X	X						X			Horticulturist, Landscape Architect	Astronomer, Meteorologist
Energy and Work	X						X	X	X		Industrial Designer, Architect, Photojournalist	Museum Curator
Extreme Earth	X	X		X							Food Scientist, Veterinarian	Archaeologist, Oceanographer
Plants	X	X						X			Agribusiness Consultant, Farmer, Arborist, Botanist	
Science Inquiry	X					X					International Relief Worker, Firefighter	Diplomat, Detective
Simple Machines	X				X		X			X	Engineer, Robotics Technician, Science Educator	Archaeologist
Space Exploration	X							X			Travel Agent	Airport Personnel, Military Serviceperson, Astronaut
Structure and Function	X	X									Veterinarian, Zoologist, Entomologist	Pet Groomer
Transportation and Power	X	X			X			X			Commercial Fisher, Cruise Director, International Businessperson, Expedition Leader	
Waves	X		X			X		X		X	Recording Executive, Sound Engineer, Music Therapist	Musician
Adaptations and Survival	X	X									Animal Care Worker, Horticultural Worker, Veterinarian, Landscape Architect	
Body at Work	X				X	X					Nurse, Personal Trainer, Physical Therapist	Professional Athlete

Curriculum Offerings	Advanced Studies	Agriculture/Animal Science	Arts & Humanities	Culinary Arts/Food Science	Education	Health Care	Industrial Technology	Logistics/Marketing	Manufacturing/Plastic & Metal Fabrication	Robotics/Coding/ Computer Science	Pathway Careers Covered in Curriculum	Additional Careers Covered in Curriculum
Missions												
Ecosystems	X	X				X					Microbiologist, Farm Manager, Ecologist, Marine Biologist	
Energy	X						X				Drilling Engineer, Electrical Engineer, Electrician, Plumber	
Engineering Structures	X						X		X		Architect, Builder, Material Scientist, Structural Engineer	
Limited Resources	X							X			Town Planner	Geoscientist, Public Relations Officer, Politician
Matter Properties	X	X				X					Pharmacist, Pharmacologist, Chemical Engineer	Cosmetologist
Motion and Force	X						X	X			Logistics Manager, Railroad Engineer, Transportation Planner	United States Marine
Scientific Discovery	X			X	X	X				X	Chef, Game Developer, Firefighter, Elementary School Teacher	
Solar System	X						X			X	Telecom Engineer	Airline Pilot, Astronaut, Astronomer
Technology and Design	X		X				X	X	X		Graphic Designer, Mechanical Engineer, Interior Designer, Product Designer	
Under the Microscope	X	X				X					Biotechnologist, Medical Doctor, Paramedic, Dentist	

MIDDLE SCHOOL

Curriculum Offerings	Advanced Studies	Agriculture/Animal Science	Arts & Humanities	Culinary Arts/Food Science	Education	Health Care	Industrial Technology	Logistics/Marketing	Manufacturing/Plastic & Metal Fabrication	Robotics/Coding/Computer Science	Pathway Careers Covered in Curriculum	Additional Careers Covered in Curriculum
STEM Units												
Green Machines	X	X							X	X	Automobile Mechanic, Auto-Body Repairer, Automotive Engineer, Mechanical Engineer, Environmental Scientist, Ecological Modeler, Geoscientist, Environmental Ecologist, Petroleum Geologist, Computer Engineer, Construction Manager, Construction Laborer, Electrical Engineer	Auto-Body Painter, Car Driver, Car Tester, Chassis Driver, Chassis Inspector, Automotive Design Layout Drafter, Geophysicist, Engineering Geologist, Atmospheric Scientist, Coil Winder, Taper and Finisher

Curriculum Offerings	Advanced Studies	Agriculture/Animal Science	Arts & Humanities	Culinary Arts/Food Science	Education	Health Care	Industrial Technology	Logistics/Marketing	Manufacturing/Plastic & Metal Fabrication	Robotics/Coding/Computer Science	Pathway Careers Covered in Curriculum	Additional Careers Covered in Curriculum
STEM Units												
High-Flying Rockets	X							X	X	X	Machinist, Mechanical Inspector, Aerospace Engineering and Operation Technician	Aerospace Engineer, Artillery and Missile Crew Specialist, Physicist
TETRIX® Manufacturing	X								X	X	Robotic Engineer, Mechatronic Engineer, Electrical and Electronic Engineer, Electrical and Electronic Engineering Technician	
3-D Printing: Vehicle Engineering	X		X				X				No careers are explicitly covered in this curriculum.	
3-D Printing: Design Solutions	X		X				X					
STEM Expeditions®												
A Closer Look	X	X		X	X	X					Agricultural and Food Scientist, Food Preparation Worker, Health Educator and Community Health Worker, Epidemiologist, Microbiologist, Health and Safety Engineer, Biological Technician	
Ahead of the Game	X		X			X			X		Athletic Trainer, Medical Scientist, Mechanical Engineer	Athletes and Sports Competitor, Health and Safety Engineer
Artificial Ecosystems	X	X									Agriculture Scientist, Agriculture Worker, Conservationist, Forester	Grounds Maintenance Worker
Bio Research	X	X		X		X		X			Medical Scientist, Genetic Counselor, Food Scientist, Farmer, Rancher, Sales Manager	Forensic Science Technician
Communications	X		X				X			X	Computer Network Architect, Electrical and Electronics Engineer, Electrical and Electronic Engineering Technician	Broadcast and Sound Engineering Technician, Telecommunication Equipment Installer and Repairer, Line Installer and Repairer

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STEM Expeditions®												
Cultivating Our Future	X	X				X		X			Urban Planner, Farmer/Rancher, Veterinarian, Genetic Engineer, Biologist	Florist
Design Time	X		X			X	X	X	X		Advertising Manager, Graphic Designer, Marketing Manager, Promotions Manager, Retail Entrepreneur, Sales Manager, Mechanical Engineer, Construction Worker, Kinesiologist, Automotive Designer, Tool Fabricator	Playground Engineer
Dragster Design	X								X	X	Mechanical Engineer, Mechanical Engineering Technician, Electromechanical Technician	Automotive Service Technician and Mechanic
Dynamic Disasters	X	X				X		X			Emergency Management Director, Occupational Health and Safety Specialist, Hydrologist	Atmospheric Scientist, Meteorologist, Geoscientist
Electric Tech	X						X		X	X	Electrician, Electrical Engineer, Circuit Design Engineer, Electromechanical Technician, Electrical Drafter	
Everyday Electricity	X		X				X				Construction Laborer and Helper, Construction and Building Inspector, Electrical and Electronic Engineer, Electrical and Electronic Technician, Electrician	
Fueling the Future	X						X		X		Electrical Engineer, Mechanical Engineer, Heating/Air Conditioning/Refrigeration Mechanic and Installer, Wind Turbine Technician, Architect, Solar Photovoltaic Installer	Small Engine Mechanic, Automotive Service Technician and Mechanic
Future Footprints	X	X	X			X					Environmental Engineering Technician, Environmental Engineer, Health and Safety Engineer, Environmental Science and Protection Technician, Mining and Geological Engineer	Actor
Growing Up	X	X		X		X	X	X			Urban Farmer, Entrepreneur, Dietician, Chef, Architect	
Looks Like Rain	X	X	X								Farmers/Rancher, Agricultural Manager, Hydrologist, Grounds Maintenance Specialist	Meteorologist
Making Waves	X		X					X		X	Music Producer, Sound Technician, Sound Engineer, Music Director	Musician, Composer

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STEM Expeditions®												
Mining Mechanics	X	X							X		Material Moving Machine Operator, Mining and Geological Engineer	Geoscientist, Geological Technician, Heavy Vehicle Technician
Optical Solutions	X		X			X		X			Optometrist, Ophthalmologist, Optical Engineer, Photonics Researcher	Astronomer, Photographer
Projecting Light	X		X			X		X	X		Audio-Visual Production Specialist, Lighting Engineer, Audio Engineer, Graphic Artist, Visual Effects Artist, Laser Designer, Optical Scientist	Astronomer
Rolling Robots	X								X	X	Mechanical Engineer, Electromechanical Technician	Automotive Service Technician
Safe Food	X			X		X					Chef, Food Science Technician, Food Scientist, Health Inspector, Kitchen Designer, Sous Chef, Waiter/Waitress	Police Officer, Criminal Investigator, Crime Lab Specialist
Taking Control	X	X	X	X			X		X	X	Computer Hardware Engineer, Computer Programmer, Agricultural and Food Scientist; Agricultural Engineer, Industrial Production Manager, Environmental Science and Protection Technician	Heating, Air-Conditioning, and Refrigeration Mechanic and Installer
Thermal Physics	X						X	X	X		Industrial Designer, Industrial Engineer, Assembler and Fabricator, Logistician, Quality Control Inspector	
Tower Power	X						X	X			Civil Engineer, Contruction Worker, Contractor, Architect	

"Development needs to happen earlier than it is currently. Right now, it's happening at a sophomore, junior, senior level. . . . We need to be able to teach it and expose them at a kindergarten level all the way up to the eighth-grade level. Then by the time they get to ninth grade, they'll understand it."

– Superintendent Rick Neal, on the new Pea Ridge Exploration of Pathways program

"If you tried to approach a student with a very theoretical-based curriculum, you're going to lose them and they're going to absolutely hate it. That's what we don't want at the K-8 level, especially because the K-8 pieces drive that interest and get students interested and excited about it."

– Arkansas Department of Education Director of Computer Science Education and Chief STEM Officer Anthony Owen, on using a hands-on approach at the K-8 level

"We realize that while there are a certain percentage of kids that go on to college, and we're proud of them, they have a path. Historically, there has not necessarily been a path for kids when they hit 18 and they're not college bound."

– Walton Family Foundation Senior Program Officer Kathy Smith

PEA RIDGE SCHOOL DISTRICT

Preparing students for the future by providing a personalized, uncommon education for all.

Pitsco Education • P.O. Box 1708, Pittsburg, KS 66762 • 800-835-0686 • Pitsco.com •

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