



















**Overview:** Many activities in Whyville are designed to engage students in STEM. There are math activities within Whyville which cover topics from graphs, charts, visual interpretation, ratios & proportions, equations, angles, rates, and more.

Whyville Locations	Activity Description	Sponsors	Graph, Chart, and Visual Interpretation	Ratios & Proportions	Equations	Angles	Rates	Special
WhyPower: Power Planner	Predict the upcoming power demands of the city and choose plants based on your preference.	U.S. Dept. of Labor, Texas Workforce Commission, Power Across Texas and Next Generation Learning Challenges						Interpret historical data
WhyPower: Green Build	Students create an energy efficient home by optimizing construction materials and appliances.	U.S. Dept. of Labor, Texas Workforce Commission, and Power Across Texas						R-values and budgeting
WhyPower: Powerline	Learn how power travels from the power plant to a city	U.S. Dept. of Labor, Texas Workforce Commission, and Power Across Texas						Resistance, Ohm's Law, advanced content
Whypower: Electric Farm	Students study the strengths and weaknesses of available renewable power plants.	U.S. Dept. of Labor, Texas Workforce Commission and Power Across Texas						Rate of return and kilowatt hours

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Circus	Use various heights and angles to propel an acrobat onto a platform							Mass and momentum. Group play encouraged
Kinematic Attic	Determine the speed of an object by using a ruler and a stopwatch	SISBOS (Sisters in Science & Brothers of Science)						
WASA: Rocket Launch	Design your own rocket and launch it to the space station	NASA-JPL						Engineering and design, altitude, velocity and acceleration
WASA: Zero Gravity Game	Use projectiles to bump into goals in a zero gravity environment	NASA-JPL						Momentum. Use clams to play. Advanced play.

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Mimi's Dance Studio	Learn dance basics, create your own, or learn a new dance							Vectors
Planeworks: Airfield Great Big Balloon Race	Pilot a hot air balloon and drop a payload near a target to score points. Players will take wind direction, climb rate, and fuel capacity into consideration while playing.	E. Desmond Lee Technology and Learning Center, College of Education, UM-St. Louis						Vectors and speeds