STEAM

SCIENCE | TECHNOLOGY | ENGINEERING | ARTS | MATHEMATICS

Academy

Program of Study
Kindergarten – 6th Grade
2018-2019

*7th and 8th Grade projected in 2019-2020

SKYLINE EDUCATION

Serving Arizona since 2000

School Contact Information

South Phoenix Campus

School	Grade	Administration
South Phoenix Prep and Arts Academy 7450 S. 40th Street Phoenix, AZ 85042 Phone: (877) 225-2118 Fax: (877) 821-5462	K-4	Jessica Carlson, Principal
	5-6	Tasha Gant, Principal

Chandler Campus

School	Grade	Administration
Vector Prep and Arts Academy 2020 N. Arizona Ave. Suite 5 Chandler, AZ 85225 Phone: (877) 225-2118 Fax: (877) 821-5462	K-6	Greg Garland, Principal

District 5 Campus

School	Grade	Administration
Skyline Gila River District 5 975 N. Preschool Road Bapshule, AZ 85121	5-6	Vaughn Flannigan, Principal

District Mission

Our mission is to provide each student and family we serve with high quality college preparatory educational programs and services designed to stimulate life-long learning while developing character through academics, arts, and athletics.

Educational Philosophy

Our charter schools are founded on the premise that all students can be successful in college. For this to become reality, we must provide children with a focused, college prep curriculum beginning with the elementary grades. Student mastery will be achieved through scientifically-based and content-rich curriculum that imparts core knowledge and essential learning skills. In order to achieve academic excellence, our program must also have a specific focus on character development through academics, athletics, and the arts. Combining the constant focus on character development and academic excellence will lead our students to be prepared for the challenges that lie ahead of them in education and in life. As a vector, with dynamic effort and direction, all students will strive to reach their full potential and be empowered to lead successful and productive lives.

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Our Steam Program

The K-6th Grade STEAM Academy is a small learning community at Skyline that utilizes standards driven thematic units to engage students in learning based on Science, Technology, Engineering, the Arts, and Mathematics. Our integrated curriculum sets the foundation for learning in all content areas, while focusing on STEAM principles that awaken students' curiosity of the world around them.

The Academy Goals:

- ✓ Provide hands-on experiential learning
- ✓ Expose students to real world problems and approaches to solve those problems
- ✓ Set the foundation for independent and critical thinking
- ✓ Learn how to use science and engineering practices to solve problems
- ✓ Create a well-rounded and versatile thinker

Learning Opportunities for Students:

- ✓ A commitment to teaching Next Generation Science concepts and practices at all grades
- ✓ School wide design challenges
- ✓ Engineering curriculum is embedded in classroom instruction
- ✓ Family STEAM Nights
- ✓ Computer Science instruction at all grade levels
- ✓ G Suite for Education beginning in Grade 3
- ✓ Invention Convention

Why choose STEAM?

STEAM students embrace a design mindset and dynamic learning through...

1. Creating and Exploring

2. Hands-On Activities
3. Self-Directed Projects
4. Problem-Based Learning
5. Teamwork and Leadership
6. Connecting to the Community
7. Being Self-Aware and Reflective

curiosity through an integrated curriculum. They will acquire higher order thinking skills and develop valuable communication, observations skills, and build their confidence by giving each student hands-on learning experiences.

What type of student would enjoy STEAM?

Students who would thrive in the STEAM program would…

- ✓ Be passionate about Science, Technology, Engineering, the Arts, and Mathematics
- ✓ Enjoy learning through inquiry, experimentation, and reflection
- ✓ Be able to cooperate with peers for group projects, but also enjoy learning independently
- ✓ Have a strong interest in wanting to understand how things work and like to create, design, and build things

Exploring STEAM: What Your Child will Learn:

At Skyline Education, your child will be given opportunities to explore an open mind and engage in natural

Science

Science is a way of thinking. Your child will observe, experiment, make predictions, share discoveries, ask questions, and ponder how things work.

Technology

Technology is a way of doing. Your child will use innovative tools, identify problems, be inventive, and make things work.

Engineering

Engineering is a way of doing. Your child will solve problems, use a multitude of materials, design, create, and build things that work.

Art

Art is a way of expressing. Your child will use their imagination and creativity and explore art in a variety of forms such as

visual and performing arts to interpret ideas into something profound.

Math

Math is a way of measuring. Your child will explore shapes, volume, size, sequencing, and patterning.

Kindergarten to Second Grade

Students in grades K-2 will be given an opportunity to learn in an interactive, student-centered atmosphere using project-based learning. This approach has students acquire knowledge and skills that are aligned to Arizona College and Career Ready Standards (ACCRS) through an integrated curriculum. Students will work on a variety of projects per each themed unit of study by investigating and responding to an engaging question, problem, or challenge.

On Fridays, students will be given opportunities to explore their learning further by solving real world problems or investigating inquiry questions they have gathered through the week and show what they learned as they journey through each unit.

Third to Sixth Grade

Students in grades 3-6 will be given an opportunity to learn in an interactive, student-centered atmosphere using project-based learning with a strong emphasis on technology. Each student will have access to G Suite for Education in our computer labs or Chromebook mobile laptop carts. This approach has students acquire knowledge and skills that are aligned to Arizona College and Career Ready Standards (ACCRS) through an integrated curriculum.

On Fridays, students will be given opportunities to become problem-

solvers within their thematic unit of studies. They will be given the freedom to design, engineer, fabricate, create, build and collaborate on projects that include real problems.

Our students will have the ability to develop their understanding of the content and demonstrate their understanding in a variety of ways. This allows us to respect and appreciate our diverse student population and the multiple intelligences they possess.

Six Pillars of Character

At Skyline, we value character education. That's why we base our programs around six core values to ensure that all our students develop the characteristics to become good friends, strong leaders, and unified partners.

SIX PILLARS OF CHARACTERS

CHARACTER	COLOR	DESCRIPTION	
TRUSTWORTHINESS	Blue: Think True Blue	• Be honest • Don't deceive, cheat or steal • Be reliable--do what you say you'll do • Have the courage to do the right thing	• Build a good reputation • Be loyal--stand by your family, friends and country
RESPECT	Yellow/Gold: Think the Golden Rule	• Treat others with respect; follow the Golden Rule • Be tolerant of differences • Use good manners, not bad language • Be considerate of the feelings of others	• Don't threaten, hit or hurt anyone • Deal peacefully with anger, insults and disagreements
RESPONSIBILITY	Green: Think being responsible for a garden of finances; or as in being solid and reliable like an oak	• Do what you are supposed to do • Persevere: keep on trying! • Always do your best • Use self-control	• Be self-disciplined • Think before you act--consider the consequences • Be accountable for your choices
FAIRNESS	Orange : Think of dividing an orange into equal sections to share fairly with friends	• Play by the rules • Take turns and share • Be open-minded; listen to others • Don't blame others carelessly	
CARING	Red : Think of a heart	• Be kind • Be compassionate and show you care • Express gratitude • Forgive others • Help people in need	
CITIZENSHIP	Purple : Think regal purple as representing the state	• Do your share to make your school and community better • Cooperate • Get involved in community affairs • Stay informed; vote	• Be a good neighbor • Obey laws and rules • Respect authorities • Protect the environment