

SOLUTION

R.E.D. STEM & Arts is here to serve as a catalyst to inspire youth to go from logging countless hours a week on YouTube, social media and playing video games to exploring the creative side and learning how it all works!

R.E.D. offers educational and fun classes to introduce kids to Computational Thinking and Creativity via hands on STEM and Arts projects and activities.

*"Don't just play on your phone,
learn to program it!"*

In addition to hands-on computer science training and the development of Computational thinking skills, students in R.E.D. STEM & Arts develop great personal skills, such as:

**Leadership, Team Work,
Self Confidence, Creativity
and Effective**



R.E.D. Mission

The Mission of R.E.D. is to promote Creativity, Build Character, and Motivate youth to freely Dream, Explore and Create their Best Personal and Academic Success.

**"Don't Merely Dream,
But CREATE!"**



STEM is FUN!

R.E.D.
AR • EE • DEE
Dream Explore Create

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R.E.D.

STEM & Arts

Dream Explore Create



#kids #learning #code



STEM • ARTS • LIFE SKILLS

HIGH-TECH World

Let's face it. Youth today have many things calling for their time and attention beyond school. Aside from playing outside with other children, participating in athletics, socializing with friends and family or partaking in afterschool, church and weekend activities, youth spend most of their FREE TIME interfacing with



CONNECTED



Computer

According to Connected Kids report, compiled by market researcher Childwise, **children and teens between ages eight and 18 spend an average of seven hours and 38 minutes daily** scrolling social media pages and downloading stuff via computers and cell phones, playing video games, and watching TV.

Good News



Students generally love technology and are adept to quickly learn how to use it!

Problem




Students are rarely encouraged to learn how it works and are often not provided opportunities to explore and create.

R.E.D. Class Description


R.E.D. was designed to spark CURIOSITY and CREATIVITY by optimizing student's natural aptitude for technology and arts through hands-on training in various STEM and Arts activities.

Class: PassCODE 
Subject: Computer Programming
Description: Students learn and use JavaScript to complete cool projects like: Create Games, Build an Animated App, Make a Web Page and Learn Real Coding Skills. -*Grades k-12th*

Class: STEMtivity 
Subject: Creative STEM activities
Description: Students explore various super fun STEM activities and experience cool hands on coding with OZOBOTS BIT, EVOS, SPHERO MINIS, BOLTS and MUCH MORE!

Class: DroneZONE 
Subject: Droneology
Description: Students learn STEM application while having fun building drones and controllers, learn flight control, industry education and of course they get to go FLY! -*Grades 5th-12th*

Class: ((M.A.P.)) 
Subject: Media Technology and Arts 
Description: Students utilize media technology to learn Audio Engineering, Photography, Video Editing and Marketing to create Art! -*Grades 7th - 12th*

Class: Dollars&Sense 
Subject: Financial Literacy
Description: Through creative lessons and games kids learn the basics of working responsibility, careers, entrepreneurship, Money Math (investing, debt) and more! -*Grades 3rd - 8th*

Class: LIT Class 
Subject: Financial Literacy
Description: Class designed to focus on Reading, Writing and Communication focusing 4 weeks on each discipline. -----
Grades 6th - 8th

R.E.D. Daily Class Schedule

R.E.D. STEM & Arts is for student's grades k-12. No prior computer science knowledge or tech skills is needed, the only requirement is CURIOSITY and enthusiasm for educational FUN!

Zone 1 - Ice Breaker: Getting Started (Unplugged worksheets, Demonstrations or Instructional Video) (10 min)

Zone 2 - Students breakout to work hands-on, independently or in groups (35 min)

Zone 3 - Team Work - Test projects, View Progress and Troubleshoot (Q&A) as a class (10 min)

Zone 4 - Transition - Log off computers, clean area and move to next class. (5 min)

*base on 1 hour of class time

Instructional Methods

- Hands-on Lab
- Team Activities
- Demonstration
- Videos
- Lecture
- Collaborative Learning

R.E.D. Proposal

R.E.D. is available to provide classes for 6 weeks sessions, full school semester and for summer camps. R.E.D. operates at an hourly rate of \$50 per hour. **the hourly rate can be adjusted to accommodate budget restraints.*

“All children are born artist, the problem is to remain an artist as we grow up”

Pablo Picasso

About R.E.D.

Douglas Redwine is a mentor, motivational speaker and the founder of R.E.D. STEM & Arts. Mr. Redwine is a graduate of Texas Southern Univ. and is a STEM professional in the field of Healthcare Technology Management (HTM) where he functions as a Region Operations Manager for the Biomed Engineering department.

R.E.D. was created to bridge the gap in urban schools that may lack diverse STEAM education opportunities. R.E.D. has provided creative STEM and Arts classes in after school programs and summer camps for hundreds of students (grades k-12) in the Fort Worth ISD, Crowley ISD and Keller ISD.

R.E.D. has a goal to impact more youth in the DFW area this coming year by partnering with other organizations to ensure more kids are provided the opportunity to experience the fun of learning and exploring creative STEM & Arts.

Dream Explore Create