**Samantha Patterson Kreuscher**

**New Orleans, LA**

**(504) 252-2984**

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**Certifications**

Louisiana Teaching Certification Level 3 Number 569648, April 2017-April 2022

Louisiana Secondary (6th-12th) Certificate in General Science, August 2009

Louisiana Middle School (4th-8th) Math Certificate, March 2017

Louisiana Administration/Principal Certification, expected June 2020

**Education**

M.Ed., Educational Leadership with an emphasis in STEAM 2016

(Science Technology Engineering Art and Mathematics)

University of San Diego, CA

B.A., Kinesiology, Critical Theory and Social Justice (minor) 2007

Occidental College, Los Angeles, CA

Dillard University TESSE Summer Program 2009-2010

 (Transforming Earth Systems Science Education)

**Testimonials**

“Ms. Kreuscher is an excellent teacher - passionate, caring & concerned about the welfare and learning for each of her students. My daughter flourished under her guidance and attention to details. We will never forget her love and the positive impact she had on my daughter and her school experience.” –Parent

"Ms. Kreuscher is definitely a team player who believes that high expectations yield high student performance! She motivates students toward success by making learning fun and cultivating a growth mindset! " –Colleague

“Ms. Kreuscher's superior ability to analyze problems and suggest effective solutions was invaluable to our school setting.” –Assistant Principal

**Experience**

**STEM Coordinator 2019- present**

*Lycée Français de la Nouvelle-Orléans, LA*

* Developed clear scope and sequences for math and science PreK-10th grades, merging both the French and Louisiana curriculums
* Designed and conducted professional developments for teachers grades PreK-9
* Coached, developed, and mentored PreK-9th teachers
* Observed and evaluated teachers using Compass evaluation rubric
* Tracked lesson plan completion for PreK-9th grade science and math teachers, providing comments and feedback
* Organized and improved Thinking Beyond the Classroom program for middle school
* Fostered relationships with existing and new external partners to expand TOC to TBC
* Designed and oversaw field trips
* Leap Testing Coordinator
* Wrote grants for school’s math, science, and high school programs
* Vetted and selected curricular materials suited for Lycée’s vision and mission
* Created and implemented systems to improve student academic achievement
* Analyzed testing data in order to drive Professional Developments, team collaborations, and curricular decisions
* Began building the technology program at Lycée involving coding, micro:bits, VR (virtual reality) and robotics.
* Collaborated with administration and academic team to ensure high achievement for teachers and students, and smooth operations of the schools
* Participated at monthly board meetings, and prepared reports as requested
* Built strong relationships with staff, teachers, students, and parents

**Math and Science Instructional Leader,** 6th Grade **2018- 2019**

*Audubon Charter School, New Orleans, LA*

* Designed a STEAM (Science Technology Engineering Art and Mathematics) curriculum in an integrated math and science Montessori course
* Integrated digital classwork, homework, and assessments to provide immediate feedback on students’ math performance and increase computer literacy confidence
* Differentiated curriculum to provide effective instruction to students with a wide range of academic abilities and levels.

**Science Coach,** 3rd-6th Grades **2017-2018**

**Science Content Lead,** 3rd-8th Grade

**Science Teacher,** 7th and 8th Grades

*Edgar P. Harney Spirit of Excellence Academy, New Orleans, LA*

* Coached and mentored 3rd-6th grade science teachers
* Redesigned school’s science curriculum according to NGSS and CCSS
* PowerSchool System Administrator and Data Manager
* Provided teachers with professional development on how to use PowerSchool and PowerSource

**Curriculum Fellow,** Chemistry **Summer 2017**

**Math Program Director**, 9th grade

**Algebra Teacher**, 9th grade

*KIPP Early College Preparatory Academy, New Orleans, LA*

* Re-designed KRECA’s math program to serve students on track to fail Algebra EOC
* Through teaching, tutoring, and the redesign of the algebra I program, the level of passing on the Algebra EOC went from only 6% (6 students) on track to pass when I arrived, to 81% (78 out of 96 students) after only 7 weeks
* Implemented intense intervention geared towards student objective proficiency
* Designed and created Chemistry curriculum with emphasis in Lab Practicums, ACT preparation, and Constructivist learning

**Science Coach,** 3rd-8th Grades **2016-2017**

**Science Content Lead,** 3rd-8th Grade

**Grade Level Chair,** 7th Grade

**Science Teacher,** 7th Grade

*SciTech Academy, New Orleans, LA*

* Designed and conducted professional developments for science teachers grades 3-8
* Coached, developed, and mentored 3rd-8th grade science teachers and 7th grade teachers (all subjects)
* Tracked lesson plan completion for 3rd-8th grade science teachers and provided comments
* Observed and evaluated teachers using an AIM rubric
* Set specific measurable goals with teachers and helped them achieve those goals
* Provided lesson plan feedback for science teachers grades 4th-8th
* Held teachers accountable to high expectations of lesson plans and materials
* Lead Seventh grade team meetings and strategized with team to create cross curricular instruction
* Created and implemented effective behavior systems for the seventh grade team
* Revamped the schools RTI program
* Created dynamic lessons for seventh grade science to be utilized across four schools utilizing data driven instruction
* Technology driven instruction implementation

**Science Instructional Leader,** 6th and 7th grades **2009 – 2016**

**Math Teacher,** 6th and 7th grades

**Social Studies Teacher,** 6th grade

*Lake Forest Elementary Charter School, New Orleans, LA*

* Implemented Curriculum Utilized: GLE, Target Teach, PARCC, CCSS, and PearsonRealize
* Designed and executed curriculum built to address students’ specific learning style, using technology, including computer simulation technology, manipulatives, Engineering Design Process (EDP), Model Eliciting Activities (MEA), Project-Based Learning (PBL), Discovery Learning, the Constructivist Approach to teaching, and Data-Based decision making.
* Interventions for low achieving students: after school tutoring for students not receiving 75% or higher on Benchmark assessments, and any students needing additional tutoring mastering objectives
* Created individualized assessments for students not showing mastery in any objective to ensure their mastery prior to state assessments
* Mentored new teachers
* Established and Developed Science Fair 2011-2015
* State Assessments: for seven years, 98% or higher of my students earning basic or above
* Lego Robotics Coach and STEM Team Coach
* After school Math tutoring grades 4 and 8

**Science Teacher,** 9th-12th grades **2007- 2009**

**ELA Teacher,** 9th grade

**Multimedia Production Teacher,** 9th grade

**Photography Teacher,** 9th grade

*G. W. Carver High School, New Orleans, LA*

* Incorporated cooperative learning activities, new texts and laboratory activities, and performance assessments
* Implemented portfolio grading system in science and multimedia classes
* PBIS (Positive Behavior Intervention Support) Academic Team
* Attended out-of-state Conferences with regards to Performance Assessments
* Coordinated community outreach to parents, alumni, and neighborhood representatives
* Athletic Trainer for all sports: present at all sports events/games and provided medical care for athletes