## **BrownSTEM Schools Instructional Model Executive Summary**

The vision of BrownSTEM Academies is to inspire and nurture facilitated learning experiences in underserved communities that create critical thinkers who become action-oriented leaders. It is our deliberate intention to strategically design an innovative learning experience for underserved students by spearheading "disorientation rituals" that are a paradigm shift to "reimagining the student experience". The tenets of our instructional model are aligned to the Deeper Learning Outcomes as outlined by The William and Flora Hewlett Foundation (www.hewlett.org/programs/education/deeper-learning/what-deeper-learning);

- 1. Mastery of Core Academic Content
- 2. Critical Thinking and Problem Solving
- 3. Collaboration
- 4. Self-directed Learning
- 5. Academic Mindset

Additionally, BrownSTEM schools intend to interweave these strategies within each school with fidelity ensuring alignment to the Deeper Learning Outcomes and tenets of our instructional philosophy and approach: Connect- to a community of learners Empower - activating students to lead their own learning Contextualize - tie subjects to each other and keep it real Reach - network beyond school walls Inspire- customize learning to motivate each student

Wire- Make technology the servant not the master\*

Specifically speaking the Deeper Learning Outcomes and strategies will be implemented via a "Teaching Hospital Model", as described by Eric Newtown, Senior Advisor to the President of John S. and James L. Knight Foundation, as "a model of learning-by-doing that includes college students, professors and professionals working together to digitally inform and engage a community." BrownSTEM schools "teaching hospital model" will offer a mixture of these six different elements into one cohesive combination:

• Students doing the work! Teachers will serve as facilitators, coaches, and advisors to provide support but 90% of the heavy lifting is owned by the student

- Exceptional teachers at every level guiding students to improve the quality and impact of the educational experience
- Professors and other recognized education experts bringing in topic knowledge and raising issues to elevate the levels of teaching and learning
- Students become innovators pioneering new tools and techniques
- Academics and practitioners alongside students doing major research projects
- Everyone working together with an emphasis of not just informing a community but engaging with it
- Be an incubator and accelerator for the next generation of STEM leaders

\*Excerpted from Martinez, Monica, McGrath, Dennis (2014) Deeper Learning: How Eight Innovative Public Schools Are Transforming Education in the twenty-First Century