

## Blended Science Implementation Plan

### Objectives:

- Our students will learn 21<sup>st</sup> Century Skills that prepare them for future careers through a Blended Learning and PBL hybrid that provides students with a more meaningful, engaging, and personalized educational program.
- Blended Science team will offer teachers an engaging, instructional method that personalizes education for all learning abilities while utilizing technology and teaching 21<sup>st</sup> century skills.

### I. Creating Conditions for Success

#### A. Before Launching

- i. Meet with Key Figures (i.e. Academic Dean, Curriculum Coaches, Lead, and Department Chair) prior to piloting the program to align campus mission and vision with the academic goals of Blended Science.

#### B. Academic Goals

- i. Powerful learning experiences
- ii. Global preparedness
- iii. Excellence in communication
- iv. An informed and involved community

#### C. Other Goals

- i. Increase attendance and student engagement
- ii. Improve teacher evaluations

#### D. Supporters

- i. Superintendent, Board, Principal, Teacher Staff, Union Support, Leadership Schools/ programs, Student and family, counselors, Curriculum Team

#### E. Funding

- i. Device maintenance budget

### II. Plan-Key Decisions

#### A. Instructional Methods

- i. Instruction will be broken down into these *five* parts:
  - a. Goal Setting- Questions, Goals, Tasks
  - b. Scaffolding Lessons- Choice of lessons
  - c. Exploration- Labs, Hands-on Activities
  - d. Product- Projects, Conclusions, Debate, Write-up
  - e. Collaboration- Website Feedback, Discussions, Networking

#### B. Strategy & Timeline-3 years:

- i. **Year 1:** One teacher or a group of willing Chemistry teachers pilot Blended Science for 2 units per semester and reflect after each unit with support team and compile lesson bank. District assessment data is compared and analyzed. Professional development presentations held mid-year and at the end of the year to show developments and results. Administrators will use evaluations to discuss Blended Science progress on meeting initial goals.
- ii. **Year 2:** Pilot teachers hold professional development to all science train teachers. Teacher who are willing to adopt program will meet again as a Blended Science PLC. New teachers are required to teach Blended Science 2 units per semester. Experienced teacher will set goals with students for the year as well as per unit and continue to teach Blended all year. Assessment data will be used and presented to Support Team. Modifications will be made. Administrators meet with teachers to discuss evaluations and progress on initial goals.

- iii. **Year 3:** Blended Science Chemistry Team will present and train all science, then create an All-Blended Science PLC. District Curriculum Directors, Administrators, and Science departments meet to evaluate program and district adoption of program.
- C. **Platform & Content, and Device-** Google Classrooms, Google Site, using Chromebooks.
- D. **Staffing & Development-** In the pilot phase of this plan, only one teacher will be using Blended Science in Chemistry or a few who volunteer. Professional Development will be given to newer teachers during the year and summer and the time will be used to develop and create a lesson bank for personalization. A curriculum team must be selected to develop curriculum. Then, more teachers will follow the following year. Eventually, a Blended Science class will be available for any Chemistry and Science class in the school
- E. **Impact Measurement**
  - i. Content Mastery-
- F. **District assessment data**
  - i. Student engagement, Culture & Climate
    - ☐ Walk-throughs
    - ☐ Student, Parent, Teacher Surveys

### III. Implement- Key to Success

- A. **Infrastructure-**
  - i. Consists of team of Teachers, Administrators, Science Curriculum Coaches, Department Leads, Technology Coach
- B. **Professional Development-**
  - i. **Target participants:** Professional development will be provided to Teachers, Administrators, Science Curriculum Coaches, Department Leads, Technology Coach, Academic Dean
  - ii. **Goals:** Teachers will learn how to implement, and practice Blended Science Blended using Google Classrooms and Google Sites and meeting requirements of T-TESS evaluations.
- C. **Implementation Support-** Technology Coach
- D. **Culture-** Key figures will establish a culture during initial meeting and at the end of each year. Ingredients for culture include: Value, Equity, Innovation, Good habits, Care, Big question, Mastery, Collaboration, Support, Execution.
- E. **Communication-** Curriculum team meets two times per semester and communicates/collaborates on team Google Class and Google Drive.

### IV. Next Steps

- A. **Meet with Key Figures**
  - i. Recruit teachers
  - ii. Establish goals and plan
  - iii. Review scope-and-sequence, calendar, and district curriculum.
  - iv. Develop first unit and present to Key Figures.
  - v. Acquire computers