U46

ACADEMIC
SUCCESS
FOR ALL

Middle School: Essential Technology

Lela Majstorovic, Asst. Superintendent for Secondary Schools Instruction and Equity
Kinasha Brown, Director Educational Pathways
Tracy Stewart, Coordinator of Career and Technical Education
Doreen Roberts, Teacher Leader for Pathways Design and Implementation
Thomas Burau. Larsen Middle School
Andrew Gollias, Eastview Middle School
James Lynch, Ellis Middle School

The Process

Computers Team

- 3 middle school computers teachers
- Teacher Leader for Pathway Design and Implementation
- Coordinator for Career and Technical Education

Curriculum Team

Thomas Burau	**Computers, Larsen Middle School**
Drew Gollias	**Computers, Eastview Middle School**
James Lynch	**Computers, Ellis Middle School**
Doreen Roberts	**Teacher Leader Pathways Design and Implementation**
Tracy Stewart	**Coordinator, Career and Technical Education**

The Process

- Call to committee sent out and reviewed
- Committee convened in June 2019
  - 2 Days Understanding by Design
  - 8 Days Curriculum Writing
    - Standard selection and alignment
    - Unit Design
    - Assessment Design
    - Resource selection
    - Professional Development identified

Courses Developed

Essential Technology: Introduction to Computers

1. Graphic Design
2. Animation
3. 3D Printing
4. Coding
5. Programming Machines
6. Website Development
7. Photo Editing
8. Video Editing
9. Passion Project

Essential Technology: Interactive Media

1. Graphic Design
2. Animation
3. 3D Printing
4. Coding
5. Programming
6. App Development
7. Augmented/Virtual Reality
8. Audio/Visual Editing
9. Passion Project

Proposal

- Committee recommends adoption of two new middle school electives
- Essential Technology (formerly computers)
  - Essential Technology: Introduction to Computers
  - Essential Technology: Interactive Media

Recommended Resources

Item	Quantity	Cost	Description	Total Cost
3D Printer	8	$1,601.63	Dremel Digilab 3D40 3D Printer	$12,813.04
iPad	80	$299.00 $79.00	iPad	$30,240.00
Charging Station	8	$316.97	Pearington 16 Device Portable Table Top Charging and Storage Cabinet	$2,535.76
Speakers	8	$97.08	AOMAIS GO Bluetooth	$776.64
Sphero BOLT	40	$180.44	Sphero BOLT	$7,217.60
Drone	16	$98.05	DJI Tello Quadcopter	$1,568.80
Monitor	16	$166.10	Philips 276E9QDSB 27" Monitor	$2,657.60
			TOTAL	**$57,809.44**

Additional Recommended Resources

Item	Quantity	Cost	Description	Total Cost
Professional Development	8	$750.00	ISTE Educator Certification	$6,000.00
Professional Development	1	$6,000.00	PBL Works Workshop (up to 35 participants)	$6,000.00
			GRAND TOTAL	**$69,809.44**

Total Investment $69,809.44
Total cost per student per year: $5.98

Professional Development: Essential Technology

- ISTE Certification (International Society for Technology Education)
  - Cohort possibilities
  - Illinois State Board of Education Professional Development Credits
  - Possible Graduate Credit with Dominican University
- PBLWorks 101
  - 3 day PD session
  - CPDUs
- Professional Development for supporting Language Learners through the Illinois Resource Center
- Teachers assigned to the Essential Technology Courses will need to self-select areas for professional development in curricular areas

Plans for the Evaluation of Change

- Professional Development
  - April 2020 - August 2020
- Implementation of new courses
  - August 2020
- Review student data and feedback
  - Revise Unit Templates and Assessments accordingly
  - Formal/Informal walk-through to ensure implementation with fidelity

Questions?/¿Preguntas?