March 9 Spring PD Day at WPI

Draft Schedule and Sessions

Below is a draft of the Spring PD Day plan, including the sessions that will be offered. Given most sessions are course specific, we wanted to share the draft in advance to help educators plan the day. ***Use the info below when registering for Spring PD Day to indicate which sessions you are planning to attend and what student work to share!***

Plan for the Day

8:00	*Registration opens*
8:30	Opening
9:00	Block 1
10:30	Block 2
12:00	Lunch
1:00	Block 3
2:30	Community Meeting/Closing

Block 1: Looking at Student Work

Course-specific sessions where we will look at student work from one project and use the insights gained to plan spring lessons. Come see what student work looks like in your colleagues' classrooms and share your own student work here!

Block 1 Sessions

Launch

- *Student work samples from the Problem Step of any modules (looking with a focus on the Engineering Design Process); student work sessions will be split out by grade band*

Gateway

- App Creators: *3.1 Great App Challenge*
- Automation and Robotics: *3.4 Automation through Programming*
- Comp Sci for Innovators & Makers: *3.2 - Problem: Interactions*
- Design and Modeling: *3.1 Therapeutic Toy*

HS Biomedical Science

- Principles of Biomedical Science - *4.1.6 Inspiration & Innovation*
- Human Body Systems - *5.1.2 Burn Unit*
- Medical Interventions - *3.4.4 Tiny Treatment*

HS Computer Science

- Comp Sci Essentials: *3.2.5 Artificial Intelligence*
- Cybersecurity: *4.3.1 Solve the Crime*
- Computer Science Principles: *Performance Task (Post Unit 3)*

HS Engineering

- Introduction and Engineering Design: *4.2.5 Automata Design Challenge*
- Principles of Engineering: *3.3.1 Design Problem: Recycling Center*
- Civil Engineering and Architecture: *4.1.6 Commercial Building Design*

DRAFT

Blocks 2 & 3: Course-Specific Skill Deep Dives

Course-specific sessions that focus on one of the upcoming student skills in the curriculum. These sessions will provide hands-on time interacting with the skill while the facilitator shares tips & tricks. Sessions are designed for educators to have time collaborating with peers and work time to plan. Below is a list of the courses-specific sessions and focus skill(s):

Block 2 Sessions	Block 3 Sessions
Launch • Concept Mapping the APB approach *(veteran Launch teachers)* • myPLTW Scavenger Hunt *(teachers new to Launch)*	**Launch** • Launch Logs: Making Student Thinking Visible • Computer Science in Launch (Scratch)
Gateway • **Computer Science for Innovators and Makers:** *Coding and setting up hardware for Servos* • **Design and Modeling:** *CAD drawings (Tinkercad/SketchUp)*	**Gateway** • **App Creators:** *Flowcharts (reading, creating with proper shapes, and converting into code)* • **Automation and Robotics:** *Coding - Vex V5 & Robot C*
HS Biomedical Science • **Human Body Systems** - *Unit 5 (building a skin model, simulating burns, & bone dissection)*	**HS Biomedical Science** • **Principles of Biomedical Science** - *4.1 Designing the Future (Tinkercad & Drug Design Lab)* • **Medical Interventions** - *4.1 Protein Gel (loading and running)*
HS Computer Science • **Computer Science Essentials:** *Artificial Intelligence (Using an incremental development process)* • **Cybersecurity:** Proper documentation *(Solving the Crime)*	**HS Computer Science** • **Computer Science Principles:** *Repl.it link OR trinkit.io link*
HS Engineering • **Introduction and Engineering Design:** *CAD Model Creation (across all 3 platforms)* • **Computer Integrated Manufacturing:** *G&M Code Programming*	**HS Engineering** • **Principles of Engineering:** *Robot C & Cortex* • **Civil Engineering and Architecture:** *Revit (site plan creation/manipulation)*
General Interest • Diversity Equity and Inclusion in STEM (K-12) • Providing Student Feedback (K-12) • Student Industry Connects (6-12) • Career Connections (6-12) • Formative Assessments in HS Biomed • Open Collaborative Space for Co-Planning/Networking	**General Interest** • Diversity Equity and Inclusion in STEM (K-12) • Providing Student Feedback (K-12) • Student Industry Connects (6-12) • Formative Assessments in HS CS • Open Collaborative Space for Co-Planning/Networking

DRAFT

Register for the Spring PD Day here

Don't forget to submit your student work for block 1 by February 11th here

Have questions or an idea for the day? Get in touch!

scunningham@wpi.edu