**For PD playground:**

**K-2 session:**

**Objectives: Play with; become intrigued by; envision student use of…..**

* **Basic block coding**
* **Basic coding as algorithm (set of directions)**
* **STREAM: engineering process – engage in planning a couple of projects**

**Centers set up:**

* Idea sheets and pencils
* 8 ipads – Scratch, Jr. and PBS Scratch, Jr. – scratch tipsheets for each; project pages for table.
* Beebots with 4 different path set ups-cards, markers
* Computer lab sign up times; STREAM ideas; laptops with folder of ideas

**On display:** Keva (task cards), K’nex, Lego basics (with task cards); squishy circuits with directions for basics; Ozobots (demo path and story path, markers and paper); Dash,Dot (iPad); MakeyMakey fruit piano; 3D printer in operation, WeDo with an iPad: Squishy circuits model

**Intro:**

* Fun and engaging space; utilizing the latest computer standards (we are ahead of the curve) – 6 C’s
* Quick temperature check – who has done some coding, electronics, etc.
* Robotics, coding, making – idea sheet and pencils
* Today’s rotations intro: Scratch, Jr.; Beebots; STEAM ideas/computer sign up times
* Quick demos: Beebots; Scratch, Jr.
* Rotations
* Share thoughts and hopes for the new year, Makerspace, and STEAM.

**3-5 session:**

**Objectives: Play with; become intrigued by; envision student use of…..**

* **Basic block coding – Scratch vs. Scratch Jr.**
* **Robotics: Ozobots**
* **STREAM: engineering process**

**Centers set up:**

* 8 iPads: Scratch, Jr. ; 4 laptops: Scratch
  + Demo Scratch, Jr. – Show Scratch (teacher account, etc.)
  + <https://vimeo.com/80961102>
* Ozobots: demo path and story path, paper and markers (Dot/Dash with iPads: We.Do with iPads available)
* Computer lab sign up times; STREAM ideas

**On display:**

Keva (task cards), K’nex, Lego basics (with task cards); squishy circuits with directions for basics; Ozobots (demo path and story path, markers and paper); Dash,Dot (iPad); We.Do Lego with iPad; MakeyMakey fruit piano; 3D printer in operation, WeDo with an iPad: Squishy circuits model with simple directions; Tinkercad on desktop; 3D printer in operation: Little Bits with simple directions

**Intro:**

* Fun and engaging space; utilizing the latest computer standards (we are ahead of the curve)
* Quick temperature check – who has done some coding, electronics, etc.
* Robotics, coding, making
* Today’s rotations: Scratch (sign up for teacher account, play).; Ozobots; (Dot/Dash with iPad as extension for those with coding experience); STEAM ideas/computer sign up times
* Quick demos: Ozobots; Scratch, JR (vs. Scratch)
* Rotations
* Share thoughts and hopes for the new year and makerspace, STEAM