Oregon Science Content and Assessment Panel February 2014

**2014 Oregon Science Standards Timeline**

**State Level Professional Development Applying the Equity Lens to Support All Students**

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| **2014-2015****School Year** | **2015-2016****School Year** | **2016-2017****School Year** | **2017-2018****School Year** | **2018-2019****School Year** |
| **Theme: *Round ‘Em Up* (Awareness)**Summer 2014* Awareness Campaign identify PD needs and available PD starting now and ongoing
* Identify state funded team of teacher leaders to meet and develop qualitative data about implementation. This group continues to meet throughout implementation – at least 20-21.
* Informal Science Educators PD around shifts
* State funded Summer PD needs development and planning-K-12 (development of make and take format for the sessions. Experience PE, then work to create lesson flow to design PE for classroom. I.E. Partner with Vernier, Intel – who would also provide materials, etc.
* Integration with PD that is going on through professional organizations and common core work
* State level PD for Administrators (at COSA) and School Boards in November
* Establish Circuit Riders – Teacher leaders hired by the state to support implementation, roll out, planning, etc.
* Funding and guidance from OEIB STEM Council.
* Collaboration with ELA/Math CCSS

District Strategic Planning happens now.All grade levels* Provide an organized document that includes all the PD that is available either online, through STEM Hubs or other sources.
* OSBA, OSTA, COSA,TAG,SpEd, ELL as vehicles for presentations

Early Elementary* K needs to start now
* Implement in K-2 to the extent possible

Middle School Grade Band* Implement NGSS at 6th grade to the extent possible

High School* Concerns about licensure i.e., Earth Science
* HS Course alignment with suggested model course sequences and shifts from 2009 to include practices and CCCs
* PD on how to read the standards with activity before content
 | **Theme: *Riders Up!*  (Intense Professional Development)*** State funded PD for K-2, 3-5, 6-8 and 9-12 – focus: Instructional shifts

 (Regional Approach)* Informal Science Educators PD around NGSS and shifts
* Formative and interim assessments
* Develop hypothetical case studies based on PEs showing different routes to get to a given PE
* Facilitate a conference for University schools of education (possibly use EdNW) Reach out specifically to Elementary Ed.
* Reach out to Engineering, Science, Career and Agriculture Depts. at the Universities and Community Colleges and include CTE people
* Support to ESDs
* STEM Hubs need to focus on NGSS
* STEM Labs Schools
* PD Portal including online webinars and electronic learning communities
 | **Theme: *Off to the Races* (curriculum development pilot assessment)*** Formative and interim assessments
* State funded PD for K-2, 3-5, 6-8 and 9-12 – focus: Equity (make sure SPED, ELL, TAG, are all included in the PD cycles and opportunities and strategies are identified for connecting these populations to NGSS
* Refine case studies based actual classroom experience showing different routes to get to a given PE
* Awareness of curriculum materials that are available and aligned to NGSS, and vendor fair-possibly OSTA or other venue. Ask Oregon science industry to support this. (Informal Science Educator and Industry Fair/Conference
* Focus on empowering elementary school teachers/support their PD
* Needs to be a state budget support over time for building science labs/equipment where they do not exist. (Equity)
* Continuing PD for new teachers, new to science, districts, etc. that are on different implementation paths.
* Guidance for teacher preparation programs, particularly elementary.

\*Measures of effective development | **Theme: *Blazing Saddles* (All schools teaching NGSS, pilot assessment)*** State funded PD for K-2, 3-5, 6-8 and 9-12 – focus: continued curriculum improvement and sharing across the state. Complete the data cycle: use assessment data to support instruction/ adjust curriculum
* Supported collaborative work after initial implementation of NGSS units.
* Continual development of units supporting the PEs based on data driven identified gaps
 | **Theme: *Science Ablazin’* (Full implementation, new assessment in place with cut scores)*** State funded PD for K-2, 3-5, 6-8 and 9-12 – Focus: ongoing support as identified by teachers and districts.
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