In coordination and collaboration with the Teaching & Learning and HR divisions to directly support core initiatives, these deployments support pedagogy and curriculum, in particular the Washington State Education Technology Standards and the district's Principles of Effective Digital Learning that support our two instructional frameworks: **Charlotte Danielson's <u>A Framework for Teaching</u>** and a pyramid of pedagogical knowledge based on the **<u>Skillful Teacher</u> from Research for Better Teaching, Inc.**

2018 WASHINGTON K-12 EDUCATION TECHNOLOGY STANDARDS

- **Empowered Learner** - Students leverage technology to take an active role in choosing, achieving and demonstrating competency in their learning goals, informed by the learning sciences.
- **Digital Citizen** - Students recognize the rights, responsibilities and opportunities of living, learning and working in an interconnected digital world, and they act and model in ways that are safe, legal and ethical.
- **Knowledge Constructor** - Students critically curate a variety of resources using digital tools to construct knowledge, produce creative artifacts and make meaningful learning experiences for themselves and others.
- **Innovative Designer** - Students use a variety of technologies within a design process to identify and solve problems by creating new, useful or imaginative solutions.
- **Computational Thinker** - Students develop and employ strategies for understanding and solving problems in ways that leverage the power of technological methods to develop and test solutions.
- **Creative Communicator** - Students communicate clearly and express themselves creatively for a variety of purposes using the platforms, tools, styles, formats and digital media appropriate to their goals.
- **Global Collaborator** - Students use digital tools to broaden their perspectives and enrich their learning by collaborating with others and working effectively in teams locally and globally.

THE PRINCIPLES OF EFFECTIVE DIGITAL LEARNING

- **Principle 1**: Digital resources promote student achievement for all students, especially historically underserved students, when students use them to produce information rather than passively consume information, but technology use alone is ineffective unless mediated by a skillful teacher
- **Principle 2**: Digital resources help teachers develop authentic learning opportunities that align with the depth of rigor of college-and-career ready standards and are relevant and meaningful to students
- **Principle 3**: Digital resources have and continue to change what "literacy" and "being literate" mean and look like
- **Principle 4**: Digital resources can help but alone are insufficient for helping students authentically engage in learning
- **Principle 5**: Digital resources allow students and teachers to connect and collaborate with other students, teachers and other influential adults, and with the content
- **Principle 6**: Digital resources provide opportunities for students to demonstrate mastery of learning goals in a variety of ways
- **Principle 7**: Digital resources allow teachers and students to monitor progress towards learning goals

GRADES 9-12 1-1 ROLL OUT

High Schools will provide a computer to all ninth-grade students beginning in 2019-2020 phasing out the cart model over four years. High-need high schools will have an accelerated roll out to meet equity goals. Franklin, Rainier Beach, Chief Sealth, and Seattle World School will join Cleveland and South Lake with grades 9-12 having 1-1 next year. Lincoln will open 1-1 with it's incoming 9th and 10th grade. Interagency will be 1-1 with its students in grade 9-12. In schools getting laptops for 9th grade only, the remaining carts will remain and used by grades 10-12 and we will add each incoming 9th grade over the next 4 years.

Prior to devices being deployed, schools will need to develop a readiness plan for technology management and family, teacher, and student readiness. The Digital Learning team is developing training materials to aid in the planning. These will be provided prior to start of school during SLI.

Deployment of devices to the equity focused schools will be in September and October; the remaining 9th graders will receive devices between November and February. We will work with schools with 9th grade deployments in the Fall on their readiness plans.

Throughout the deployment, support from Digital Learning Specialists, Technical Support Specialists and, in a limited way, the new Educational Technologists will ensure staff have the professional development needed to ensure student success.

School Name	Tier	Projected Enrollment*	Total Devices Needed**	2019: Costs
Ballard High School	4	1,830	434	$353,161
Chief Sealth International High School	2	1,067	1,099	$893,129
Cleveland STEM High School	3	898	256	$208,943
Franklin High School	2	1,213	1,249	$1,014,172
Garfield High School	3	1,577	380	$309,381
Ingraham International High School	3	1,469	439	$357,453
Lincoln High School		596	17	$15,568
Middle College High School	4	48	4	$4,618
Nathan Hale High School	3	1,165	328	$267,315
Nova High School	4	282	53	$44,169
Rainier Beach High School	1	726	748	$608,122
Roosevelt High School	4	1,733	398	$323,973
Seattle World School	1	255	221	$185,897
South Lake High School	3	63	0	
The Center School	4	257	78	$64,722
West Seattle High School	4	1,050	324	$263,884
Grand Total			6,028	$4,914,505

GRADES K-12 CART ROLL OUT

K-8 self-contained classrooms will each have a computer cart with 12-16 computers based on grade level as set based on WSS class sizes.

We will work with schools in the Fall 2019 on their technology plans and begin roll outs in January based on WSS tier first and need second. Throughout the deployment, support from Digital Learning Specialists, Technical Support Specialists and, in a limited way, the new Educational Technologists will ensure staff have the professional development needed to ensure student success.

Grade Level	Number of Devices per classroom	Device Type
K-2	12	Laptops or iPads
3-5	15	Laptops
6-8	16	Laptops
Self-Contained Special Education	½ student ratio	Laptops or iPads with assistive technology as needed

School Name	Tier	Projected Enrollment*	Devices Needed	Carts Needed	2019 Costs
Adams Elementary	4	527	147	10	$59,297
Aki Kurose Middle School	1	675	190	15	$121,509
Alki Elementary	4	381	99	7	$40,254
Arbor Heights Elementary	4	587	347	24	$140,448
B.F. Day Elementary	4	339	270	18	$108,470
Bailey Gatzert Elementary	1	285	117	9	$48,448
Beacon Hill International School	3	425	119	8	$47,888
BRIDGES Transition		133	50	5	$33,243
Broadview-Thomson K-8 School	2	502	358	24	$223,818
Bryant Elementary	4	575	281	18	$112,007
Cascadia Elementary	4	520	17	0	$5,466
Catharine Blaine K-8 School**	4	651	104	7	$0
Cedar Park Elementary	4	171	95	6	$37,764
Concord International School	2	364	149	10	$59,940
Daniel Bagley Elementary	4	414	181	12	$72,635
Dearborn Park International School	3	320	179	12	$71,992
Decatur Elementary	4	248	0	0	$0
Denny International Middle School	2	903	434	32	$274,829
Dunlap Elementary	2	245	202	13	$80,590
Eckstein Middle School**	4	1,113	599	42	$0
Emerson Elementary	1	346	241	16	$96,740
Fairmount Park Elementary	4	540	242	16	$97,061
Frantz Coe Elementary	4	551	228	15	$91,356
Gatewood Elementary	4	412	180	12	$72,314
Genesee Hill Elementary	4	687	213	14	$85,330
Graham Hill Elementary	2	345	254	17	$102,123
Green Lake Elementary	4	471	202	15	$82,997
Greenwood Elementary	4	323	199	12	$78,422
Hamilton International Middle School	4	1,055	366	25	$229,378
Hawthorne Elementary	3	437	149	10	$59,940
Hazel Wolf K-8 School	4	794	160	12	$101,564
Highland Park Elementary	2	313	156	11	$63,394

InterAgency	2	382	32	2	$19,831
Jane Addams Middle School	4	1,049	285	20	$179,255
John Hay Elementary	4	490	288	18	$114,257
John Muir Elementary	3	371	251	16	$99,955
John Rogers Elementary	4	343	205	14	$82,758
John Stanford International School	4	491	124	8	$49,495
Kimball Elementary	3	461	130	9	$52,628
Lafayette Elementary	4	432	316	21	$126,870
Laurelhurst Elementary	4	336	247	17	$99,872
Lawton Elementary	4	440	129	8	$51,103
Leschi Elementary	3	391	164	11	$65,966
Licton Springs K-8 School	4	192	0	0	$0
Louisa Boren STEM K-8 School	4	589	57	5	$37,055
Lowell Elementary	2	269	188	14	$77,293
Loyal Heights Elementary	4	508	0	0	$0
M. L. King Jr. Elementary	1	285	229	15	$91,678
Madison Middle School**	4	1,005	439	29	$0
Madrona Elementary	4	267	352	23	$140,851
Maple Elementary	3	578	249	16	$99,312
McClure Middle School	4	512	222	17	$141,341
McDonald International Elementary	4	510	214	13	$84,448
McGilvra Elementary	4	245	176	11	$69,824
Meany Middle School	2	562	0	0	$0
Mercer International Middle School	3	1,132	95	9	$62,560
Montlake Elementary	4	254	63	4	$25,069
North Beach Elementary	4	417	94	7	$38,646
Northgate Elementary	3	217	123	9	$50,377
Olympic Hills Elementary	3	490	0	0	$0
Olympic View Elementary	4	445	263	17	$105,016
Orca K-8 School	4	410	306	21	$191,893
Pathfinder K-8 School	4	530	201	14	$126,295
Queen Anne Elementary	4	324	221	14	$87,902
Rainier View Elementary	3	266	140	10	$57,046
Robert Eagle Staff Middle School	3	929	0	0	$0
Roxhill Elementary	3	253	0	0	$0
Sacajawea Elementary	4	229	34	3	$14,542
Salmon Bay K-8 School**	4	704	375	25	$0
Sand Point Elementary	3	181	141	9	$56,164
Sanislo Elementary	3	216	185	13	$75,125
South Shore PK-8 School	2	560	499	33	$311,425
Stevens Elementary	4	228	145	10	$58,654
Thornton Creek Elementary	4	633	380	26	$153,464
Thurgood Marshall Elementary	4	492	88	7	$36,717
TOPS K-8 School	4	522	276	19	$173,151
Van Asselt Elementary	1	407	299	20	$120,201
View Ridge Elementary	4	487	304	20	$121,809
Viewlands Elementary	4	381	209	14	$84,044
Washington Middle School	3	649	280	21	$177,736
Wedgwood Elementary	4	474	286	19	$114,818
West Seattle Elementary	2	421	171	12	$69,420
West Woodland Elementary	4	566	350	23	$140,208
Whitman Middle School	4	625	207	14	$129,562
Whittier Elementary	4	453	198	12	$78,101
Wing Luke Elementary	3	333	73	5	$29,488
Grand Total			16,831	1,142	$7,072,444