

E-4: Technology – Board accepted 5-25-11: Meets Reasonable Progress

Throughout life, students will understand and apply current and emerging technologies to extend their personal abilities and productivity.

Interpretation:

- We interpret *throughout life* to mean that once a student leaves our K-12 system they have demonstrated proficient application of current technologies and have acquired 21st Century skills. These skills include the ability to persevere, be flexible, take informed risks, think critically and understand how to adapt to, and extend future technologies to enrich and advance their personal and working lives as well as enable them to connect and communicate within the global community.
- We interpret *students* to mean each student in the graduating class of the current year.
- We interpret *understand and apply* to mean that our students demonstrate knowledge, application and proficiency throughout their K-12 school experiences.
- We interpret *current* to mean technology tools and access available to students each year in our K-12 system.
- We interpret *emerging technologies* to mean the constantly innovating, evolving, and developing hardware and software, and escalation in access.
- We interpret *to extend their personal abilities and productivity* to mean that our students use technology embedded in their learning activities, rather than as an end in itself, to expand their thinking skills, organizational skills, research skills, and communication skills. Benchmark classes at sixth grade and high school have standard curricula specifically aligned with E-4.

Reasonable progress: We have confidence that students are meeting the target of E-4 when they participate in our K-12 educational program and through earning a diploma demonstrate the skills and proficiencies to successfully complete the course requirements. This is because our K-12 system precludes students from graduating if they fail to meet these course requirements. Therefore, the Superintendent will show evidence that E-4 is embedded in the K-12 system for all students.

Limitations inherent in E-4

Technology pervades curriculum and instruction throughout the K-12 system. While the technology requirements shown in this report give us the confidence that all students graduate with baseline skills in technology, much of what contributes to the superintendent's confidence of E-4 compliance is not easily quantified.

Types of evidence: Technology embedded in the K-12 system for 2010-2011 year

- Alignment: Specific technology benchmarks and E-4 embedded in 6th grade Technology Class at all four middle schools; state curriculum and E-4 in Software Applications 1 class at all high schools
- Requirements: 6th grade Technology Class; Software Applications 1 class at high school, or be exempted by passing the Technology Proficiency Challenge Test
- Graduation rate: Percentage of students (at minimum) who have successfully met these Technology requirements.
- Application: Percentage of students failing in 6th grade Technology class and high school Software Applications 1 class.
- 8th grade Student Technology Literacy Survey

Capacity Building Response

We had anticipated adding an end-of-course 6th Grade Technology Test for 2010-2011 – the differences among curriculum and 6 week/12 week classes did not make this a viable option.

For the 2010-2011 school year points of evidence will change as follows:

- Current 6th grade Technology class is being completely rewritten. The new class called TechSmart will provide a consistent technology literacy and fluency curriculum at all five middle schools that will:
 - Satisfy the high school technology graduation requirement
 - Align with K-12 Educational Technology standards
 - Align with OSPI Technology Integration in the Classroom Tier 3 standards
 - Meet CTE standards for STEM funding
 - Introduce students to on-line learning through a common core curriculum
 - Include a common end-of-course assessment

The Technology class will be implemented in 6th grade in four schools and 7th grade at the fifth middle school.

Middle School technology teachers, Dennis Wright, Director of Career and Counseling Services, and Career and Counseling TOSA and Instructional Technology TOSAs have begun working on the new curriculum which will be delivered primarily on-line. Testing of the new curriculum will take place before the end of the school year and training will be provided to the teachers of TechSmart in July, 2011. The class will be implemented in August 2011.

- High School Technology Graduation Requirement
 - Proficiency Test is being offered three (3) times a year as opposed to the one time a year offering of the past.

- The on-line tutorial preparation software is available and accessible to all interested students rather than the tutorial available only to students registered to take the proficiency test.
- The Proficiency Test has been updated.
- The software technology class will be adjusted and updated to match with the new state standards.
- Students in the three transition years between the current Technology Class and TechSmart will need to complete the requirement. In addition to the current proficiency test and software applications class, students taking the Introduction to Computer Science class, AP Computer Science Class, or Web Design class will be able to complete the proficiency test at the end of any of those classes to meet the requirement.

Additional Data

To meet technology benchmarks and standards, Issaquah students must have ubiquitous access to technology at school. As technology is not funded by the state, the Issaquah community has been extraordinarily generous in providing funding for technology through Technology Levies. That funding has enabled the school district to provide the access needed by our students for their learning.

Graduation Rate

Source: OSPI School Report Card

	2005-06	2006-07	2007-08	2008-09	2009-10
On Time	90.30%	92.60%	93.10%	95.90%	95.60%
Extended	93.90%	95.00%	95.40%	100.10%	98.50%

Data on 8th Grade Technology Literacy Self-Assessment Spring 2010:

	Tier 1-Personal use and communication	Tier 2-Collect, integrate, evaluate information	Tier 3-Solve problems, create solutions	Total Students
BLMS	12%	57%	31%	341
IMS	15%	55%	30%	305
MMS	11%	57%	32%	280
PLMS	18%	52%	29%	320
Total Students	14%	55%	30%	1246
<i>(Students not completing the self-assessment were added to Tier 1.)</i>				

Additional Questions on 8th Grade Technology Literacy Self-Assessment 2010						
1144 8th grade students responded of 1246 registered	All	BLMS	IMS	MMS	PLMS	
<i>Students Registered</i>	92%	93%	89%	95%	90%	
<i>Students Responding</i>						
Question 12: What technology devices do you own? Please check all that apply	All	BLMS	IMS	MMS	PLMS	
Desktop computer	85%	86%	82%	84%	88%	
Laptop/Netbook computer	72%	74%	71%	69%	75%	
Cell phone	91%	93%	93%	87%	91%	
MP3 player/iPod	92%	92%	91%	92%	91%	
Game console	88%	91%	85%	90%	84%	
Other:	TVs, radio, stereo, camera, e-book reader, DVD players, etc.					
Question 13: Do you have Internet access at home?	All	BLMS	IMS	MMS	PLMS	
Yes	99%	99%	98%	99%	99%	
No	1%	1%	2%	1%	1%	
Question 14: What places do you go online? Please check all that apply.	All	BLMS	IMS	MMS	PLMS	
Home	97%	98%	96%	97%	97%	
School	89%	89%	83%	91%	93%	
Library	55%	60%	47%	60%	52%	
Friend's house	77%	81%	72%	76%	81%	
Question 15: Where do you go online most often?	Youtube, Facebook, e-mail, etc.					
Question 16: What are your top three online activities?	Facebook/myspace, etc., e-mail, school work related, chatting, blogging, Games, youtube/videos, Family Access,					

This spreadsheet is a summary of the technology provided to OSPI for the 2011 on-line technology inventory.

School	All Instruc. Comp. (total clsrms, lib, labs)	Class-rooms	Library	Labs	Office	FTE as of 3/1/11	Ratio: Students-Instructional Comp.	Elect. Student Resp. Syst.	Activ Slates	Doc Cams	Pro-jectors	ACTIV boards
AP	202	145	18	39	32	470	2.3	12	0	35	39	28
BW	239	189	20	30	34	393	1.6	4	1	30	34	23
CA	296	258	9	29	28	525	1.8	10	1	38	39	32
CH	217	158	19	40	29	467	2.2	2	0	36	40	30
CL	241	142	21	78	33	332	1.4	1	0	28	39	31
CR	258	209	25	24	31	520	2.0	12	1	39	40	34
CS	234	184	20	30	43	552	2.4	8	0	38	40	38
DS	258	199	18	41	27	537	2.1	9	0	41	41	35
EN	267	224	16	27	35	549	2.1	9	0	40	46	36
GR	194	159	4	31	41	656	3.4	20	1	50	52	45
IVE	260	192	22	46	18	499	1.9	9	11	31	35	32
MH	244	187	17	40	18	378	1.5	6	0	26	30	26
NC	230	180	16	34	44	495	2.2	9	7	32	38	30
SH	246	174	15	57	33	536	2.2	9	1	34	39	30
SS	311	229	20	62	22	571	1.8	8	1	37	41	35
BLMS	522	331	6	185	46	831	1.6	16	3	49	54	36
IMS	521	338	48	135	84	733	1.4	21	2	41	42	37
MM	494	329	53	112	65	923	1.9	21	12	50	50	42
PCMS	480	340	44	96	52	698	1.5	13	1	46	48	32
PLMS	518	266	57	195	65	718	1.4	19	2	47	74	34
IHS	938	665	59	214	56	1,719	1.8	88	136	90	126	1
LHS	785	412	97	276	54	1,122	1.4	3	4	58	69	14
SHS	824	248	92	484	147	1,788	2.2	9	136	70	111	11
TM	110	82	8	20	28	88	0.8	0	0	10	9	11
ISD	8889	5840	724	2325	1065	16100	1.8	318	320	996	1176	703

Data on failure rate for required sixth grade technology class:

School	# of students who took Computer Tech 6 in 2010	# of students who failed	Failure Rate
Issaquah MS	238	1	0.42%
Maywood MS	307	1	0.33%
Pine Lake MS	138	0	0.00%
Beaver Lake MS	280	0	0.00%

Data on failure rate for required high school Software Applications 1 class:

	# of students who took Software Tech 1 2010	# of students who failed	Withdrew	No Credit	Failure Rate
Issaquah High	89	1	1	0	1%
Online	3	0	0	0	0%
Summer School	9	1	0	0	11%
Liberty High	298	22	0	0	7%
Online	1	0	0	0	0%
Pacific Cascade	614	5	10	0	1%
Online	4	0	0	0	0%
Skyline High	72	1	0	2	1%
Online	0	0	0	0	0%
Summer School	5	0	0	0	0%
Tiger Mt. High	The unit configuration of the classes does not provide this data.				
Online	2	1	0	0	50%