E-4: Throughout life, students will understand and apply current and emerging technologies to extend their personal abilities and productivity.

Interpretation

We interpret "students will understand and apply current and emerging technologies to extend their personal abilities and productivity" to mean that:

1. our students demonstrate knowledge, application and proficiency throughout their K-12 school experiences. Embedded in their learning activities, rather than as an end in itself, technology is used to expand student 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.

2. 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.

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

- 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.

Wish list for E-4

Full, consistent participation year to year in 8th grade Student Technology Literacy Survey
In previous years there has been no reporting feature only to OSPI to compel participation in the survey. With the inclusion of the information in the E-4 Monitoring Report we anticipate full participation in the survey beginning with school year 2009-2010.

6th Grade Technology Test
The district has paid for the Skills Assessment Manager (SAM) testing software at all of the secondary schools. The SAM software is used for the Technology Proficiency Challenge Test students can take to be exempted from the Software Applications 1 class which is a high school graduation requirement.

A test can be constructed using the Skills Assessment Manager software that all 6th grade students can take during their required 6th Grade Computer Tech class.

We anticipate meeting with the teachers of the Computer Tech classes at all four middle schools to discuss the content of the test and the implications of adding it to their curriculum for school year 2010-2011. The test can be constructed for next year.

There is no consistent required technology testing among school districts, unlike as is the case for core curriculum, against which Issaquah students can be measured against other districts' students. However, a 6th grade test would provide information as to how Issaquah students are doing at that grade level over time.

Accepted by the Board: December 9, 2009

Evidence for E-4 Technology

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.

This spreadsheet is a summary of the technology provided to OSPI for the 2008-2009 on-line technology inventory.

School	All Instructional Computers	Library	Labs	Class-rooms	Office	FTE as of 3/1/09	Ratio-Instructional Computers	Document Cameras	Projectors	ACTIV boards
Apollo	211	21	50	140	46	390	1.8	29	38	24
Briarwood	243	19	33	191	30	395	1.6	31	40	16
Cascade Ridge	328	14	29	285	30	562	1.7	37	43	15
Challenger	229	19	36	174	21	502	2.2	35	35	10
Clark	208	17	35	156	25	311	1.5	21	26	15
Cougar Ridge	305	28	32	245	27	497	1.6	36	38	30
Discovery	249	20	37	192	16	599	2.4	37	41	33
Endeavour	232	9	33	197	16	621	2.7	38	42	34
Grand Ridge	256	17	29	210	27	812	3.2	46	47	44
Issaquah Valley	255	22	47	186	15	458	1.8	28	37	20
Maple Hills	232	19	35	178	16	391	1.7	25	27	6
Newcastle	193	11	31	151	41	462	2.4	31	37	12
Sunny Hills	307	29	44	234	20	526	1.7	31	33	13
Sunset	251	21	56	174	20	540	2.2	33	45	35
Beaver Lake	515	4	170	341	69	1,031	2.0	46	51	19
Issaquah Middle	439	50	66	323	66	939	2.1	48	60	27
Maywood	566	42	112	412	34	897	1.6	44	51	17
Pine Lake	512	47	71	394	78	918	1.8	52	58	31
Issaquah High	747	50	21	676	87	1,257	1.7	65	84	10
Liberty	656	75	258	323	100	1,146	1.7	55	73	12
Pacific Cascade	451	44	141	266	87	874	1.9	44	46	12
Skyline	589	50	271	268	128	1,243	2.1	51	84	11
Tiger Mt.	130	0	57	73	15	79	0.6	9	10	3

12/03/2009

Graduation Rate

Source: OSPI School Report Card

	2005-06	**2006-07**	**2007-08**
On Time	90.3%	92.6%	93.1%
Extended	93.9%	95.0%	95.4%

Data on failure rate for required sixth grade technology class:

	# of students who took Comp Tech 6 in 2009	**# of students who failed**	**Failure Rate**
MS Comp Tech 6	1260	17	1.35%

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

	# of students who took Software Tech 1 in 2009	**# of students who failed**	**Failure Rate**
HS Software Tech 1	1062	37	3.5%

Significant anecdotal data is supplied on the Issaquah School District Ends forum. The link is here:
http://isdends.ning.com/

This is a link to the FOCUS on E-4 published December 2008:
http://www.issaquah.wednet.edu/documents/FOCUS/FocusWebDec08.pdf