

Table 2 - Difference between "NGSS only" and state standards by concept number. Difference was calculated as the average for "NGSS only" minus the state standards average (Dougherty et al., 2011.) for each concept. Cells shaded orange indicate instances where the average "NGSS only" score is better by 0.3 or more. Blue shaded cells indicate instances where the average for the state standards is better by 0.3 or more.

Standards	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	#14	#15	#16	#17	#18	#19
AK	-0.7	-0.2	0.3	0.9	-0.4	0.2	0.2	0.4	0.4	-0.1	1.2	1.5	1.9	0.2	1.8	0.4	0.9	-0.1	0.7
AL	-0.7	-0.5	-1.4	-0.4	-1.1	-0.1	0.2	-0.6	0.1	0.2	1.2	-0.2	-0.1	0.2	0.8	-0.9	0.9	-0.1	1.1
AR	0.0	0.5	-0.7	0.6	-1.1	-0.5	0.2	-1.3	0.4	0.2	1.2	0.2	0.9	-0.1	-0.2	0.1	0.2	-0.1	-0.6
AZ	-0.4	-0.2	-0.1	-0.1	-0.1	-0.1	-0.1	-1.0	-0.6	-0.1	0.5	0.8	0.6	-0.5	1.5	0.1	-0.1	-0.1	-0.3
CA	-0.5	0.0	-1.2	-0.4	-1.1	0.2	0.2	-1.3	-1.1	-1.3	0.4	0.2	0.1	-0.1	0.3	-0.1	0.1	-0.2	0.9
CO	0.0	0.5	0.6	0.3	0.6	-0.1	-0.1	-0.3	0.4	0.2	-0.1	0.8	0.9	0.2	1.8	-0.6	0.2	-0.1	0.7
CT	-0.4	-0.5	-0.7	0.3	-1.1	-0.1	-0.1	-1.0	-0.6	-0.8	0.2	0.2	-0.1	-0.1	0.5	-0.9	-0.1	-0.4	-0.3
DC	-0.7	-0.5	-0.1	0.3	-1.1	0.2	0.2	-1.3	-1.3	-1.8	1.2	0.2	0.2	-0.5	0.1	0.4	0.2	-0.4	-0.3
DE	-0.7	-0.5	-1.4	-0.4	-1.1	-0.1	0.2	-1.3	-1.3	-0.8	-0.1	-0.5	-0.1	-1.8	-0.2	-1.6	-0.1	-0.4	-0.6
FL	-0.5	0.2	-1.2	-0.4	-1.1	-0.8	-0.8	-0.6	0.1	-0.1	0.9	0.2	0.1	-1.3	-0.2	-1.1	0.1	-0.2	0.6
GA	0.0	0.5	-0.4	0.3	-0.8	0.2	0.2	-0.6	-0.6	0.2	0.5	-0.5	-0.1	0.2	0.8	0.1	1.2	0.3	0.7
HI	-0.4	-0.2	-0.4	0.6	-1.1	-0.1	-0.1	-1.3	0.1	0.2	0.5	0.2	0.9	-0.5	0.8	-0.6	0.2	0.3	0.4
IA	-0.7	-0.5	-1.1	-0.4	-1.1	-0.1	-0.1	0.0	-0.3	0.2	0.2	-0.2	0.2	-0.5	-0.2	-1.3	-0.1	-0.4	-0.6
ID	0.0	0.2	0.6	1.6	0.9	0.2	0.2	0.2	-0.9	-1.1	0.2	1.5	1.9	0.2	1.8	0.4	0.4	-0.2	0.1
IL	-0.5	-0.5	-1.4	-0.4	-0.9	-0.8	-1.3	-0.8	-0.6	-0.3	-0.3	0.0	0.1	-0.8	0.3	-1.4	-0.1	0.1	0.1
IN	-0.7	0.5	0.1	0.6	-1.1	0.2	0.2	-0.3	-1.6	-1.1	-0.1	-0.3	-0.1	-1.8	-0.2	-1.1	0.1	-0.4	0.4
KS	-0.7	-0.5	-1.4	0.3	-0.1	-1.1	-1.8	-0.6	-0.3	-0.8	-0.5	0.2	0.2	-1.8	-0.2	-0.3	-0.1	-0.4	-0.6
KY	-0.7	-0.5	-0.4	0.6	0.2	-0.1	-0.1	-0.6	-0.9	-0.8	-0.1	-0.5	-0.1	-1.1	0.5	-0.6	0.6	-0.4	-0.3
LA	0.3	-0.2	0.3	0.3	-0.4	0.2	0.2	0.4	0.4	0.2	1.2	1.5	1.9	0.2	1.8	0.4	0.6	0.3	0.1
MA	-0.2	0.2	0.1	0.3	-1.1	-0.1	-0.3	-1.3	0.4	0.2	1.2	0.2	1.1	-0.3	0.0	0.4	0.6	0.3	-0.1
MD	-0.2	0.5	-1.2	-0.4	-0.9	0.2	0.2	-1.1	0.1	0.2	0.4	0.0	0.1	-1.1	-0.2	-0.4	0.1	-0.2	0.4
ME	-0.4	0.2	0.3	0.6	0.2	0.2	0.2	-0.3	-0.9	-1.1	0.5	0.5	0.9	0.2	0.5	-0.6	1.6	0.9	0.7
MI	-0.7	-0.5	-1.1	-0.1	-1.1	-1.1	-1.1	-1.3	-1.3	-0.8	-0.1	-0.5	-0.1	-1.8	-0.2	-1.6	-0.1	-0.4	-0.6
MN	-0.7	-0.5	-1.4	0.3	-1.1	-0.1	-0.1	-1.3	-0.6	-0.1	0.9	0.2	-0.1	-0.8	-0.2	-0.6	-0.1	-0.4	0.1
MO	-0.7	-0.5	-0.1	0.3	-1.1	-0.1	-0.1	0.0	0.1	0.2	0.9	-0.5	-0.1	-0.8	0.8	-0.6	1.9	1.6	1.4
MS	-0.4	0.2	-0.7	0.3	-1.1	0.2	0.2	-1.3	0.1	0.2	1.2	0.2	0.6	-0.5	0.8	-0.6	0.6	0.3	1.1
MT	-0.4	-0.2	-1.4	-0.4	-1.1	0.2	0.2	-1.0	-0.6	0.2	1.2	-0.2	0.2	-0.5	0.8	0.4	0.2	-0.1	-0.6
NC	-0.2	0.2	-1.4	-0.2	-1.1	-1.3	-1.8	-1.3	-0.9	-1.3	-0.3	0.5	0.6	-0.8	1.0	-0.9	0.4	-0.2	-0.1
ND	0.0	-0.5	-0.1	0.3	-1.1	0.2	0.2	0.4	0.4	-0.1	1.2	0.5	0.9	0.2	1.5	0.1	1.6	-0.1	0.7
NE	-0.2	1.2	0.6	0.8	0.9	0.2	0.2	0.7	0.4	0.2	1.2	0.7	0.1	-1.8	-0.2	-0.4	-0.1	-0.4	0.4
NH	-0.4	0.5	0.3	0.6	-0.8	-0.1	-0.1	0.4	-0.3	-0.8	0.2	-0.2	0.2	-1.8	-0.2	-1.3	-0.1	-0.4	0.1
NJ	0.0	0.7	0.3	0.3	-0.1	0.2	0.2	0.2	0.1	0.2	0.7	0.0	0.6	-0.1	-0.2	-0.1	0.9	0.3	0.6
NM	-0.7	-0.5	-1.1	-0.4	-0.8	-0.1	-0.1	-1.0	-0.9	-1.1	0.9	-0.5	0.2	0.2	0.8	-0.3	0.2	-0.4	0.7
NV	-0.7	0.8	-0.1	0.3	-0.8	0.2	0.2	-1.0	-1.6	-0.1	0.9	0.5	0.9	-1.8	1.5	0.1	0.6	-0.1	0.4
NY	-0.7	-0.5	0.3	0.8	0.6	0.2	-0.3	-0.1	-1.6	-0.6	-0.1	-0.5	0.4	-1.8	0.8	-1.1	0.1	-0.4	-0.6
OH	-0.7	0.2	-1.4	0.6	-1.1	0.2	-0.1	0.4	-0.3	-0.8	0.5	-0.2	0.6	-1.8	0.8	0.4	0.2	-0.4	0.4
OK	-0.4	0.5	-0.7	0.3	-0.4	-0.5	-0.5	-0.6	-0.9	-0.5	-0.1	1.2	1.6	0.2	1.5	0.4	0.9	0.3	0.1
OR	0.6	0.2	0.3	0.6	0.2	0.2	0.2	-1.0	0.1	-0.1	0.5	1.5	1.6	0.2	1.8	0.4	0.6	-0.1	0.7
PA	-0.4	-0.5	-1.4	-0.4	-0.8	0.2	0.2	-1.3	0.4	-0.1	1.2	0.2	0.2	-0.1	1.5	0.1	0.6	-0.4	-0.6
RI	-0.7	-0.2	0.3	-0.4	-0.8	0.2	0.2	-1.3	0.4	-0.1	0.2	-0.2	-0.1	-0.8	0.8	-0.9	-0.1	-0.4	-0.3
SC	-0.4	-0.5	0.6	0.6	-1.1	0.2	0.2	-1.3	0.1	-0.1	0.5	0.5	0.9	-1.8	0.8	0.4	0.2	-0.1	0.4
SD	0.0	0.8	-0.4	-0.1	-1.1	0.2	0.2	-0.3	-0.3	0.2	0.2	0.2	0.2	-0.5	0.8	-1.3	0.6	-0.1	0.1
TN	-0.7	-0.5	-0.7	-0.4	-1.1	-1.5	-1.8	-1.3	-0.9	-0.8	0.2	0.2	-0.1	-0.8	0.5	-1.6	0.9	-0.4	0.1
TX	-0.7	0.2	-1.1	0.3	-0.1	-0.5	-0.5	-1.0	-0.9	-1.5	-0.1	0.2	0.6	-1.1	0.8	-0.9	0.2	-0.1	-0.6
UT	-0.7	0.5	0.3	-0.4	-1.1	0.2	0.2	-0.3	-0.3	0.2	1.2	0.5	-0.1	-0.5	1.5	-0.6	0.2	-0.4	0.1
VA	-0.7	-0.2	-1.4	-0.1	-1.1	-0.1	0.2	-1.3	-1.3	0.2	0.9	-0.2	0.2	-0.8	-0.2	0.4	-0.1	-0.4	-0.6
VT	-0.5	0.0	-0.2	0.1	0.1	0.2	0.2	-0.3	-1.6	-1.8	0.2	-0.5	-0.1	-1.6	0.3	-1.1	0.4	-0.2	-0.1
WA	-0.7	-0.5	-1.1	-0.4	-0.8	-0.5	-0.5	-1.3	-1.3	-1.8	-0.1	-0.2	-0.1	-1.1	-0.2	-0.6	-0.1	-0.4	0.4
WI	-0.7	-0.3	-0.4	0.6	0.1	0.2	0.2	-0.1	-0.6	-1.1	0.2	0.2	1.1	-1.8	0.8	-0.1	1.1	0.1	0.6
WV	0.6	0.2	-0.7	0.3	-1.1	0.2	0.2	-1.3	-0.6	0.2	1.2	0.2	-0.1	-0.1	1.5	0.4	0.6	0.6	0.7
WY	0.0	1.0	0.1	0.6	0.4	0.2	0.2	-0.1	-0.4	-0.3	0.4	0.7	1.1	-0.3	1.0	0.1	0.1	-0.2	-0.4