

Supplemental file 1: Florida State Academic Educational Standards included in the *Shade our Schools - Leaves are Cool!* challenge for Elementary and Middle Schools. State benchmarks can be found on <https://www.cpalms.org/>.

Year	Grade	Subject	Benchmarks	
Elementary Schools		Physical Development	A.2, A.7, D.1, D.2 D.3	
		Approaches to Learning	A.1, B.1	
		Social and Emotional Development	A.b.2	
		Language, Communication, and Literacy	A.2, C.1, C.2, G.3	
		Cognitive Development and General Knowledge	A.a.3, A.c.2, A.d.2, A.f.1, A.f.2, A.f.3, B.a.1, B.a.2, B.c.2, B.c.2, D.a.1, D.a.2	
	Kindergarten		Language Arts (LAFS)	K.L.1.1, K.L.1.2, K.L.3.5, K.L.3.6, K.W.1.2, K.W.3.7, K.W.3.8
			Math (MAFS)	K.CC.2.5, K.CC.3.6, K.G.1.1, K.G.1.2, MD.1.1, MD.1.2, MD.2.3
			Science (SC)	K.L.14.3, K.N.1.1, N.1.2, K.N.1.3, K.N.1.4, K.N.1.5, K.P.8.1
			Social Studies (SS)	K.G.3.3
			Visual Arts (VA)	K.H.3.1, K.S.1.1, K.S.2.1, K.S.3.1, K.S.3.3
1		Language Arts (LAFS)	1.L.1.1, 1.L.1.2, 1.L.3.5, 1.L.3.6, 1.RF.1.1, 1.RF.3.3, 1.RF.4.4, 1.W.1.2, 1.W.2.6, 1.W.3.7, 1.W.3.8	
		Math (MAFS)	1.MD.1.1, 1.MD.1.a, 1.MD.3.4	

	Science (SC)	1.E.5.4, 1.E.6.1, 1.L.14.1, 1.L.14.2, 1.L.14.3, 1.L.17.1, 1.N.1.1, 1.N.1.2, 1.N.1.3, 1.P.8.1
	Visual Arts (VA)	1.C.2.1, 1.F.1.1, 1.F.3.2, 1.H.3.1, 1.O.1.1, 1.S.3.1
2	Language Arts (LAFS)	2.L.1.1, 2.L.1.2, 2.L.2.3, 2.RF.3.3, 2.RF.4.4, 2.RL.4.10, 2.W.1.2, 2.W.2.5, 2.W.2.6, 2.W.3.7, 2.W.3.8
	Math (MAFS)	2.MD.1.1, 2.MD.1.3, 2.MD.1.4
	Science (SC)	2.E.7.2, 2.L.17.1, 2.L.17.2, 2.N.1.1, 2.N.1.2, 2.N.1.4, 2.N.1.5, 2.P.8.1, 2.P.8.5
	Visual Arts (VA)	2.F.3.2, 2.H.3.1, 2.S.2.1, 2.S.2.2, 2.S.3.1, 2.S.3.3
3	Language Arts (LAFS)	3.L.1.1, 3.L.1.2, 3.L.2.3, 3.L.3.5, 3.L.3.6, 3.W.1.2, 3.W.2.4, 3.W.2.5, 3.W.2.6, 3.W.3.7, 3.W.3.8, 3.W.4.10
	Math (MAFS)	3.MD.2.4
	Science (SC)	3.E.5.2, 3.E.6.1, 3.L.14.1, 3.L.14.2, 3.L.15.2, 3.L.17.1, 3.L.17.2, 3.N.1.1, 3.N.1.2, 3.N.1.3, 3.N.1.5, 3.N.1.6, 3.N.1.7, 3.P.8.1, 3.P.8.3, 3.P.11.1
	Visual Arts (VA)	3.F.3.2, 3.F.3.3, 3.H.3.1, 3.S.2.2
4	Language Arts (LAFS)	4.L.1.1, 4.L.1.2, 4.L.2.3, 4.L.3.6, 4.RI.3.7, 4.RI.4.10, 4.W.1.2, 4.W.2.4, 4.W.2.5, 4.W.2.6, 4.W.3.7, 4.W.3.8, 4.W.4.10
	Math (MAFS)	4.MD.1.1, 4.MD.2.4

		Science (SC)	4.L.16.2, 4.L.17.4, 4.N.1.1, 4.N.1.4, 4.N.1.5, 4.N.1.6, 4.N.1.7, 4.N.2.1, SC.4.P.11.1
		Social Studies (SS)	4.G.1.3
		Visual Arts (VA)	4.F.3.3, 4.H.3.1, 4.O.2.1, 4.O.3.1, 4.S.3.1, 4.S.3.3
	5	Language Arts (LAFS)	5.L.1.1, 5.L.1.2, 5.L.2.3, 5.W.1.2, 5.W.2.4, 5.W.2.5, 5.W.2.6, 5.W.4.10
		Math (MAFS)	5.MD.1.1, 5.MD.2.2
		Science (SC)	5.L.15.1, 5.L.17.1, 5.N.1.1, 5.N.1.2, 5.N.1.3, 5.N.1.5, 5.N.2.1, 5.N.2.2
		Visual Arts (VA)	5.F.1.1, 5.F.3.1, 5.F.3.3, 5.F.3.4, 5.H.3.1, 5.S.3.1, 5.S.3.3
Middle Schools	K-12	Gifted	G.K12.1.1.2c, G.K12.1.2.1a, G.K12.1.2.2c, G.K12.1.2.3d, G.K12.1.3.2b, G.K12.1.3.2d, G.K12.2.1.2a, G.K12.2.1.2d, G.K12.2.2.1a, G.K12.3.1.1a, G.K12.3.1.1c, G.K12.3.1.2c, G.K12.3.1.2d, G.K12.3.2.1c, G.K12.4.1.1a, G.K12.4.1.3c, G.K12.4.1.4a, G.K12.4.1.5a, G.K12.4.2.1b, G.K12.4.2.2c, G.K12.4.2.3d, G.K12.4.3.1b, G.K12.4.3.2c, G.K12.4.3.3b, G.K12.5.2.1a, G.K12.5.3.2a, G.K12.5.3.4c, G.K12.6.1.3d, G.K12.6.2.4a, G.K12.6.3.3d, G.K12.7.1.4

	Mathematics	MAFS.K12.MP.1.1, MAFS.K12.MP.2.1, MAFS.K12.MP.3.1, MAFS.K12.MP.4.1, MAFS.K12.MP.5.1, MAFS.K12.MP.6.1, MAFS.K12.MP.7.1, MAFS.K12.MP.8.1
	Reading/Language Arts - LAFS:	LAFS.K12.R.3.7, LAFS.K12.W.1.2, LAFS.K12.W.2.4, LAFS.K12.W.2.5, LAFS.K12.W.2.6, LAFS.K12.W.4.10, LAFS.K12.SL.1.2, LAFS.K12.L.1.1, LAFS.K12.L.1.2, LAFS.K12.L.3.4, LAFS.K12.L.3.6
6-8	Reading/Language Arts - LAFS:	LAFS.68.RH.1.2, LAFS.68.RH.3.7, LAFS.68.RST.1.1, LAFS.68.RST.1.3, LAFS.68.RST.2.4, LAFS.68.RST.3.7, LAFS.68.WHST.1.2, LAFS.68.WHST.2.4, LAFS.68.WHST.2.5, LAFS.68.WHST.2.6, LAFS.68.WHST.3.7, LAFS.68.WHST.3.8, LAFS.68.WHST.3.9
6	Mathematics	MAFS.6.EE.2.8, MAFS.6.EE.3.9, MAFS.6.SP.1.2, MAFS.6.SP.2.5
	Reading/Language Arts - LAFS:	LAFS.6.W.1.1, LAFS.6.W.1.2, LAFS.6.W.2.4, LAFS.6.W.2.5, LAFS.6.W.3.7, LAFS.6.W.3.8, LAFS.6.W.3.9, LAFS.6.SL.1.2, LAFS.68.SL.2.5, LAFS.6.L.1.1, LAFS.6.L.1.2, LAFS.6.L.2.3, LAFS.6.L.3.6
	Science	SC.6.N.1.1, SC.6.N.1.2, SC.6.N.1.3, SC.6.N.1.4, SC.6.N.1.5, SC.6.N.2.1, SC.6.N.2.2, SC.6.N.2.3, SC.6.N.3.1, SC.6.N.3.2
7	Mathematics	MAFS.7.G.2.6, MAFS.7.SP.1.1, MAFS.7.SP.2.4

	Reading/Language Arts - LAFS:	LAFS.7.RI.1,2, LAFS.7.W.1.1, LAFS.7.W.1.2, LAFS.7.W.2.4, LAFS.7.W.2.5, LAFS.7.W.2.6, LAFS.7.W.3.7, LAFS.7.W.3.8, LAFS.7.W.3.9, LAFS.7.SL.1.2, LAFS.7.SL.1.2, LAFS.7.SL.2.5, LAFS.7.L.1.1, LAFS.7.L.1.2, LAFS.7.L.2.3, LAFS.7.L.3.6
	Science	SC.7.L.16.4, SC.7.N.1.1, SC.7.N.1.3, SC.7.N.1.4, SC.7.N.1.5, SC.7.N.1.6, SC.7.N.2.1
8	Mathematics	MAFS.8.EE.1.4, MAFS.8.F.2.4, MAFS.8.SP.1.1, MAFS.8.SP.1.4
	Reading/Language Arts - LAFS:	LAFS.8.RI.1.2, LAFS.8.W.1.1, LAFS.8.W.1.2, LAFS.8.W.2.4, LAFS.8.W.2.5, LAFS.8.W.2.6, LAFS.8.W.3.7, LAFS.8.W.3.8, LAFS.8.W.3.9, LAFS.8.SL.1.2, LAFS.8.SL.2.5, LAFS.8.L.1.1, LAFS.8.L.1.2, LAFS.8.L.2.3, LAFS.8.L.3.6
	Science	SC.8.E.5.10, SC.8.L.18.1, SC.8.L.18.2, SC.8.N.1.1, SC.8.N.1.6, SC.8.N.2.2, SC.8.N.4.1, SC.8.N.4.2
	Social Studies	SS.8.G.3.2, SS.8.G.5.1, SS.8.G.5.2