

STEM KIT STANDARDS ALIGNMENT

STEM KIT	NGSS	ISTE	CSTA
Level I			
CODE YOUR WORLD (Level I)	--	Empowered Learner 1a, 1c-1d, Innovative Designer 4a-4d, Computational Thinker 5a-5d, Creative Communicator 6a-6d	1A-CS-01, 1A-CS-03, 1A-AP-08, 1AAP-09, 1A-AP-10, 1A-AP-11, 1A-AP-12, 1A-AP-14
ENGINEERS USE ROBOTICS TO SOLVE PROBLEMS (Level I)	K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3, K-PS2-2	Empowered Learner 1a, 1c-1d, Innovative Designer 4a-4d, Computational Thinker 5a-5d, Creative Communicator 6a-6d	1A-CS-01, 1A-CS-03
DRONE: AERONAUTICS (Level I)	K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3, K-PS2-2	Empowered Learner 1a, 1c,1d, Innovative Designer 4a-4d, Computational Thinker 5a-5d, Creative Communicator 6a-6d	1A-CS-01, 1A-CS-03, 1A-AP-15
MOBILE DEVELOPMENT (Level I)	K-2-ETS1-1, K-2-ETS1-2, K-2-ETS1-3	Empowered Learner 1a, 1c,1d, Innovative Designer 4a-4d, Computational Thinker 5a-5d, Creative Communicator 6a-6d	1A-CS-01, 1A-CS-03, 1A-AP-08, 1AAP-09, 1A-AP-10, 1A-AP-11, 1A-AP-12, 1A-AP-14
Level II			
CODING WITH COLOR (Level II)	3-5-ETS1-1, 3-5-ETS1-2, 4-PS4-3	Empowered Learner 1a, 1c-1d, Digital Citizen 2b, Knowledge Constructor 3d, Innovative Designer 4b, Comput. Thinker 5a, Creative Comm. 6c,6d, Global Coll. 7d	1B-AP-09, 1B-AP-10, 1B-AP-13, 1B-AP-15, 1B-AP17
3D PRINTING (Level II)	3-ESS3-1, 3-5-ETS1-1	Empowered Learner 1a, 1c-1d, Digital Citizen 2b, Knowledge Constructor 3d, Comput. Thinker 5a, Creative Comm. 6c	1B-CS-03, 1B-AP-08, 1B-AP-15, 1B-AP16
SPHERO PLAYGROUND (Level II)	3-PS2-1, 3-PS2-2, 3-5-ETS1-1, 3-5-ETS1-2, 3-5-ETS1-3, 4-PS3-1, 4-PS3-3	Computational Thinker- 5b, Creative Communicator- 6b and 6d	1B-DA-06, 1B-DA-07, 1B-AP-10, 1B-AP-11, 1B-AP-16
DRONES: GETTING READY FOR FLIGHT (Level II)	3-5-ETS1-1, 3-5-ETS1-2, 3-5-ETS1-3, 3-PS2-2, 4-PS4-3	Empowered Learner 1a, 1c-1d, Digital Citizen 2b, Knowledge Constructor 3a, Innovative Designer 4a-4c, Comput. Thinker 5a-5c, Creative Comm. 6c, Global Coll. 7c	1B-CS-03, 1B-AP-10, 1B-AP16
THE SCIENCE OF SOUND (Level II)	3-5ETS1-1, 3-5 ETS1-2, 3-5 ETS1-3, 4-PS3-2, 4-PS4-1, 4-PS4-3	Empowered Learner 1a, 1c-1d, Digital Citizen 2b2c, Knowledge Constructor 3a-3b, 3d, Creative Communicator 6b-6d	1B-CS-03, 1B-DA-06, ,
THE SCIENCE OF LIGHT (Level II)	3-5ETS1-1, 3-5 ETS1-2, 3-5 ETS1-3, 4-PS4-1, 4-PS4-3,	Empowered Learner 1a, 1c-1d, Digital Citizen 2b, Innovative Designer 4a, Comput. Thinker 5b, Creative Comm. 6a-6d	1B-DA-06

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MOBILE DEVELOPMENT (Level II)	3-ESS2-1, 3-ESS2-2, 3-5-ETS1-1, 3-5-ETS1-2, 3-5-ETS1-3, 3-LS2-1, 5-LS2-1	Knowledge Constructor 3a-3d, Innovative Designer 4a4d, Creative Communicator 6a-6d	1B-CS-01, 1B-CS-02, 1B-IC-18, 1B-NI-04
CYBERSECURITY (Level II)	4-PS4-3, 5-ESS3-1	Empowered Learner 1c, Digital Citizen 2a,2b,2b	1B-NI-04,1B-NI-05, IB-AP-09, IB-AP-10
MORE CODING FUN WITH OZBOT (Level II)	3-5-ETS1-1, 3-5-ETS1-2, 4-PS4-3, 5-LS2-1	Empowered Learner 1a, 1c-1d, Digital Citizen 2b, Knowledge Constructor 3d, Innovative Designer 4b, Comput. Thinker 5a, Creative Comm. 6c,6d, Global Coll. 7d	1B-AP-09, 1B-AP-10, 1B-AP-13, 1B-AP-15, 1B-AP17
DATA SCIENCE (Level II)	4-PS3-4, 3-5-ETS1-1, 3-5-ETS1-3, 3-PS2-3, 3-PS2-4, 4-PS3-2, 3-ESS2-1	Empowered Learner- 1c, Knowledge Constructor- 3a, 3c, Innovative Designer- 4a, 4b, 4c, 4d, Creative Communicator- 6b, 6c, 6d	1B-DA-06, 1B-DA-07
Level III			
3D PRINTING: PATHWAY TO PURPOSEFUL ENGAGEMENT (Level III)	MS-ETS1-1, MS-ETS1-3, MS-ETS1-4	Knowledge Constructor 3a-3c, Innovative Designer 4a4d, Creative Communicator 6a-6c	2-AP-15, 2-CS-02, 2-IC-20
DRONES: READY FOR FLIGHT (Level III)	MS-ETS1-1, MS-ETS1-4	Empowered Learner 1a, 1c-1d, Digital Citizen 2b, Knowledge Constructor 3a, Innovative Designer 4a-4c, Comput. Thinker 5a-5c, Creative Comm. 6c, Global Coll. 7c	2-CS-03, 2-AP-15
DEPLOY DRONE: BUILD YOUR DRONE (Level III)	MS-ETS1-1	Emp. Learner 1a, 1c-d, Knowledge Constructor 3a-3d, Inn. Designer 4a-4d; Comput. Thinker 5a-5d; Creat. Comm. 6a-6d	2-DA-08
CYBERSECURITY (Level III)	MS-PS4-3	Empowered Learner 1c, Digital Citizen 2a,2b,2b	2-NI-05
COMMUNICATION, CODING, AND MINI SPHERO (Level III)	MS-ETS1-1, MS-ETS1-2, MS-ETS1-3, MS-ETS1-4, MS-PS2-2, MS-PS4-3	Innovative Designer 4a-4d, Computational Thinker 5c5d, Creative Communicator 6a-6d	2-AP-12, 2-AP-13, 2-AP-16
SPHERO MINI THROUGH NATIONAL PARKS (Level III)	MS-ETS1-1, MS-ETS1-2, MS-ETS1-3	Knowledge Constructor- 3a, Innovative Designer- 4a, 4b, 4c, 4d, Computational Thinker- 5d, Creative Communicator- 6b, and 6d	2-AP-13, 2-AP-15, 2-AP-17

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MOBILE DEVELOPMENT (Level III)	MS-ETS1-1, MS-ETS1-4, MS-PS2-2	Knowledge Constructor 3a-3d, Innovative Designer 4a4d, Creative Communicator 6a-6d	2-AP-12, 2-AP-15, 2-NI-06,
DRONES: READY FOR FLIGHT (Level III)	MS-ETS1-1, MS-ETS1-3, MS-ETS1-4, MS-PS2-2	Empowered Learner 1a, 1c-1d, Digital Citizen 2b, Knowledge Constructor 3a, Innovative Designer 4a-4c, Comput. Thinker 5a-5c, Creative Comm. 6c, Global Coll. 7c	2-CS-03, 2-AP-15, 2-DA-08
Level IV			
CYBERSECURITY (Level III)	HS-ETS1-1, HS-ETS1-2	Empowered Learner 1c, Digital Citizen 2a,2b,2b, Global Coll 7c	3A-NI-06, 3A-NI-07, 3A-NI-08, 3A-IC-24, 3B-AP-18
CODING FOUNDATIONS (Level III)	HS-ETS1-2, HS-ETS1-3, HS-ETS1-4	Empowered Learner 1a, 1c-1d, Digital Citizen 2b, Knowledge Constructor 3d, Innovative Designer 4b, 4d, Comput. Thinker 5a, Creative Comm. 6c,6d, Global Coll. 7c	3A-CS-03, 3A-AP-14, 3B-CS-01, 3B-CS-02
3D PRINTING CHALLENGE: SOLVING A REAL-WORLD PROBLEM (Level III)	HS-ETS1-2, HS-ETS1-3, HS-ETS1-4	Empowered Learner 1a, 1c-1d, Digital Citizen 2b, Knowledge Constructor 3d, Innovative Designer 4b, 4d, Comput. Thinker 5a, 5c, Creative Comm. 6c,6d, Global Coll. 7c	3A-CS-03, 3A-DA-11, 3A-DA-12, 3A-AP-13, 3A-AP-16, 3A-AP-17, 3A-AP-18