MINDSETS *and* SKILLSETS ALIGNMENT

STEAM MINDED WV

This document contains alignment of the WV STEAM-Minded Mindsets and Skillsets (*Curiosity and Imagination, Growth Mindset, Courage and Risk-taking, Persistence and Grit, Opportunity-Seeking, Problem-Solving, Optimism, Resourcefulness and Adaptability, Empathy and Altruism, Creativity, Teamwork, Design Thinking, Prototyping, and Public Speaking*) to the WV College and Career Readiness Standards, as well as to the WV Standards for Effective Schools, the Science and Engineering Practices, and the Engineering Design Process. Links to each of the sets of standards, habits, or practices are found in the heading of each column).

MINDSETS *and* SKILLSETS	***Student Success Dispositions and Standards (2510.19)***	***Computer Science and Technology Standard Clusters (2520.14)***	***Standards for Effective Schools***	***Mathematical Habits of Mind***	***Science and Engineering Practices***	***Engineering Design Process***	***College- and Career-Readiness Standards for the Arts (2520.9)***
 **CURIOSITY & IMAGINATION**	DSS.K-2.6, DSS.3-5.6, DSS.6-8.6	› Cluster 1: Empowered Learner		MHM 1, MHM2, MHM4, MHM7, MHM 8	› Asking Questions and Defining Problems	› Ask: Identify the Need & Constraints › Imagine: Develop Possible Solutions	› Create › Perform
 **GROWTH MINDSET**	DSS.3-5.3, DSS.3-5.6-8, DSS.6-8.1, DSS.6-8.7, DSS.9-12.4, DSS.9-12.8	› Cluster 1: Empowered Learner › Cluster 3: Knowledge Constructor	1. Clear and Focused Mission › A culture of ownership for student success	MHM1, MHM2, MHM3, MHM4, MHM5, MHM6, MHM7, MHM8	› Developing and Using Models › Planning and Carrying Out Investigations	› Imagine: Develop Possible Solutions	› Reflect › Create › Perform
 **COURAGE & RISK-TAKING**	DSS.K-2.6, DSS.3-5.7	› Cluster 3: Knowledge Constructor		MHM1, MHM2, MHM3, MHM4, MHM5, MHM 8	› Asking Questions and Defining Problems › Developing and Using Models › Planning and Carrying Out Investigations	› Create: Build a Prototype	› Symbols and Ideas › Create
 **PERSISTENCE & GRIT**	DSS.K-2.4, DSS.3-5.4, DSS.3-5.7	› Cluster 3: Knowledge Constructor		MHM1, MHM2, MHM3, MHM4, MHM5, MHM6, MHM7, MHM 8	› Developing and Using Models › Planning and Carrying Out Investigations	› Create: Build a Prototype › Test and Evaluate Prototype › Improve: Redesign as Needed	› Design › Perform › Create › Direct

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 **OPPORTUNITY-SEEKING**	DSS.K-2.12, DSS.3-5.12, DSS.6-8.8, DSS.6-8.9, DSS.6-8.10, DSS.6-8.11, DSS.6-8.13, DSS.9-12.8, DSS.9-12.9, DSS.9-12.10, DSS.9-12.11-13	› Cluster 1: Empowered Learner		MHM1, MHM2, MHM3, MHM4, MHM5, MHM 8	› Developing and Using Models › Planning and Carrying Out Investigations	› Imagine: Develop Possible Solutions	› Create › Reflection and Analysis › Relate › Connect
 **PROBLEM-SOLVING**	DSS.K-2.2, DSS.3-5.7, DSS.6-8.4, DSS.9-12.4	› Cluster 4: Innovative Designer › Cluster 5: Computational Thinker › Cluster 2: Digital Citizen	5. Equitable Opportunities to Learn and Effective Instruction › Instructional activities are rigorous and aligned to student interest and State Standards.	MHM1, MHM2, MHM3, MHM4, MHM5, MHM6, MHM7, MHM 8	› Asking Questions and Defining Problems › Developing and Using Models › Planning and Carrying Out Investigations › Analyzing and Interpreting Data › Using Mathematics and Computational Thinking	› Create: Build a Prototype › Test and Evaluate Prototype › Improve: Redesign as Needed	› Reflection › Analysis › Create › Relate
 **OPTIMISM**		› Cluster 1: Empowered Learner		MHM1, MHM2, MHM4, MHM5, MHM6, MHM7, MHM 8	› Analyzing and Interpreting Data › Using Mathematics and Computational Thinking	› Improve: Redesign as Needed	› Create › Perform › Explore › Relate
 **RESOURCEFULNESS & ADAPTABILITY**	DSS.K-2.2, DSS.K-2.6, DSS.3-5.6-8, DSS.6-8.1, DSS.6-8.4, DSS.9-12.1	› Cluster 5: Computational Thinker		MHM1, MHM2, MHM4, MHM5, MHM6, MHM7, MHM 8	› Asking Questions and Defining Problems › Developing and Using Models › Planning and Carrying Out Investigations › Analyzing and Interpreting Data › Using Mathematics and Computational Thinking	› Create: Build a Prototype › Test and Evaluate Prototype › Improve: Redesign as Needed	› Symbols and Ideas › Perform › Create › Connect
 **EMPATHY & ALTRUISM**	DSS.K-2.15, DSS.3-5.14, DSS.3-5.15, DSS.6-8.14-15, DSS.6-8.16	› Cluster 7: Global Collaborator	4. Positive and Safe Environment › Student diversity is embraced and respected	MHM3, MHM4	› Asking Questions and Defining Problems	› Ask: Identify the Need & Constraints	› Connect › Relate › Create

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 CREATIVITY	DSS.K-2.6, DSS.3-5.6	› Cluster 4: Innovative Designer › Cluster 6: Creative Communicator		MHM1, MHM2, MHM4, MHM5, MHM7, MHM 8	› Asking Questions and Defining Problems › Communicating Information	› Ask: Identify the Need & Constraints › Research the Problem › Imagine: Develop Possible Solutions	› Design › Perform › Relate › Create
 TEAMWORK	DSS.3-5.6, DSS.3-5.7, DSS.6-8.7, DSS.9-12.7	› Cluster 7: Global Collaborator	4. Positive and Safe Environment › Collaboration and cooperation are pervasive among staff and students	MHM1, MHM3, MHM4, MHM,	› Planning and Carrying Out Investigations		› Create › Perform › Respond › Direct
 DESIGN THINKING		› Cluster 4: Innovative Designer › Cluster 2: Digital Citizen		MHM4, MHM5	› Asking Questions and Defining Problems › Developing and Using Models	› Research the Problem › Imagine: Develop Possible Solutions	› Relate › Design › Connect › Create
 PROTOTYPING		› Cluster 4: Innovative Designer			› Developing and Using Models › Planning and Carrying Out Investigations › Analyzing and Interpreting Data	› Create: Build a Prototype › Test and Evaluate Prototype › Improve: Redesign as Needed	› Design › Respond › Relate › Create
 PUBLIC SPEAKING		› Cluster 6: Creative Communicator	2. Instructional Leadership › Students are engaged in age-appropriate leadership opportunities	MHM1, MHM3, MHM4, MHM5, MHM6	› Engaging in Argument from Evidence › Obtaining, Evaluating, and Communicating Information	› Test and Evaluate Prototype › Present to your peers	› Perform › Create › Relate › Career Development