AGREEMENT EXECUTIVE SUMMARY

Grant Program	Computational Thinking for Next Generation Science Standards (NGSS) Challenge Collaborative
Financial Impact Statement	The positive financial impact is $4,000 provided through two annual payments of $2,000 plus approximately $10,000 to be provided as a $500 stipend to each participating educator. The source of funds is and National Center for Research in Advanced Information and Digital Technologies (referred to as Digital Promise). There is no additional financial impact to the District.
Schools Included	Teachers were invited from all BCPS middle schools. The following middle schools are currently registered for the professional learning experience: Coral Springs, Deerfield Beach, Forest Glen, Gulfstream Academy K-8, Lauderdale Lakes, Seminole, Silver Trail, Sunrise, Walter C. Young, Westglades
Managing Department	Innovative Learning
Source of Additional Information	1. Dr. Daryl Diamond, Director – Innovative Learning 754-321-2630 2. Dr. Lisa Milenkovic, Supervisor, STEM+Computer Science – Applied Learning 754-321-2623
Project Description	The Computational Thinking for NGSS Challenge Collaborative will bring together district leaders and teachers from five League of Innovative Schools districts (Broward County Public Schools (FL), Compton Unified School District (CA), Iowa City Community School District (IA), Talladega County Schools (AL), and Vancouver Public Schools (WA) to focus on designing and implementing a professional learning experience and instructional materials to support the integration of Computational Thinking into middle school science instruction. In partnership with coaches, curriculum designers, experts, and researchers from Digital Promise, district staff members and lead teachers will come together (in person and online) to design the professional learning experience and instructional materials. Middle school science teachers will then participate in the experience, provide feedback, and earn micro-credentials capturing their new skills and competencies. Participation in this Challenge Collaborative fits in well with the work that Broward County Public Schools is currently conducting regarding Coding and Computer Science and will enhance both while extending professional development and curriculum development in Computational Thinking. Coding is the skill of writing instructions that a computer can execute. Computer science is an academic field of study that covers hardware, software, algorithms, and their applications and impacts on society. Computational thinking is a set of overlapping problem-solving skills, which can be used in a variety of different settings. For example: • Gathering and organizing data to investigate questions and communicate findings • Expressing procedures as algorithms (that is, a series of logical, precise, repeatable steps that delivers an expected result) to reliably create and analyze processes • Creating computational models that use data and algorithms to simulate complex systems • Using and comparing computational models to develop new insights about a subject The implications of computational thinking stand to impact learning across ages and disciplines in K-12 education. For more information about Digital Promise League of Innovative Schools and Computational Thinking Challenge Collaborative please go to https://digitalpromise.org/initiative/computational-thinking/.
Alignment with Strategic Plan	This grant is aligned to District Strategic Goal 1: High-Quality Instruction (Middle Grades Learning); District Strategic Goal 2: Continuous Improvement (Innovative

	Learning/Digital Promise League of Innovative Schools); District Strategic Goal 3: Effective Communication (Applied Learning).
Level of Support provided by GAGP	GAGP staff provided level 3 contract support in negotiating contract language with the funder, guiding the contract through local legal review and execution, developing documentation for the board agenda, preparing a hard copy of the file for record keeping, and tracking the grant through the grants management system.