



Summer Readiness: Grade 9

Goal: Build momentum and confidence for the upcoming school year. Choose your challenge level for each subject. Students in Extended sections are encouraged to complete "The Push".

Subject	Focus Skills & Standards	The Resources	The Core Challenge	The Push (Extension)
Mathematics	Skill(s): • Translate: Swap between verbal, numerical, and algebraic expressions. • Evaluate: Simplify numerical and algebraic expressions (including using the Distributive Property). • Translate: Swap between sentences and equations. • Solve: Solve 1-step, multi-step, and variables-on-both-sides equations. • Literal Equations: Solve formulas for a specific variable. • Properties: Identify properties of equality and identity. • Proportions: Solve proportional equations. Standard(s): • HSA-SSE.A.1. Interpret expressions that represent a	Numerical Expressions Algebraic Expressions 1 Algebraic Expressions 2 Properties of Real Numbers Distributive Property	8 Core to 9 Core	Problems 1-2-3 8 Ext to 9 Ext

	quantity in terms of its context. • .HSA-CED.A.2. Create equations in two or more variables to represent relationships between quantities; • HSA-REI.B. Solve equations and inequalities in one variable. • HSA-REI.B. Solve equations and inequalities in one variable.			
Language & Literature	Skill(s): • Visual literacy and photography analysis • Identifying and analyzing author/creator choices • Supporting ideas with textual/visual evidence • Determining message/theme • Analytical thinking and interpretation Standard(s): CCSS.ELA-LITERACY.RI.9-10.1 CCSS.ELA-LITERACY.RI.9-10.7	Video on Analyzing Photos	ELA9 Photography Guide	ELA9 Photography Guide
Science Grade 9 Biology	Skill(s): • Read critically and for comprehension • Read a variety of sources for information and for pleasure	Photosynthesis Video Ecology Video Biomes Video	Biogeochemical Cycles Photosynthesis Worksheet	Biomes worksheet Food web worksheet

	• Make inferences and draw conclusions • Use and interpret a range of discipline-specific terms and symbols Standard(s): • HS-LS1-5. • Use a model to illustrate how photosynthesis transforms light energy into stored chemical energy. • HS-LS2-1. • Use mathematical and/or computational representations to support explanations of factors that affect carrying capacity of ecosystems at different scales.			
Individuals & Societies	Skill(s): • Interpret geographic data (maps, graphs, tables, spatial data) to identify patterns • Analyze relationships between people, places, and environments • Use geographic reasoning to explain causes and consequences of patterns and processes	Refer to Task Sheet	Grade 9 Summer Packet Unit 1 Geography.docx	Grade 9 Summer Packet Unit 1 Geography.docx

	• Apply cause-and-effect thinking to physical and human geography • Evaluate human impact on the physical environment over time • Analyze human-environment interactions (two-way relationships) • Assess how environmental conditions influence human decisions (settlement, migration, economy) • Evaluate issues related to sustainability and environmental change Standard(s): • D2.Geo.1.9-12 • D2.Geo.2.9-12 • D2.Geo.3.9-12 • D2.Geo.5.9-12 • D2.Geo.11.9-12 • CCSS.ELA-LITERACY.RH.9-10.1 • CCSS.ELA-LITERACY.RH.9-10.2			
Electives (Art/PE/Design)	Skill(s): Standard(s): Art: Skill(s): Art Analysis Standard(s): Core Challenge: VA:Re8.1.HSI The Push: VA:Re8.1.HSIII	See Task Sheet	Art: Art- Summer Museum Guide.docx	Art: Art- Summer Museum Guide.docx

Islamic	أحكام إتقان \ Skill(s): التجويد وتلاوة القرآن الكريم غيبا الآيات حفظ فهم معاني الآيات وما ترشد إليه وكيفية أحكام الحج معرفة أدائه كتابة - قراءة: Standard(s) - تحليل- وفهم استيعاب - استنتاج	Islamic Summer Packet Grade 9 IFL.pptx التربية الإسلامية الأنشطة الصيفية الصف 9.pptx	Islamic Summer Packet Grade 9 IFL.pptx	التربية الإسلامية الأنشطة الصيفية الصف 9.pptx
Arabic A	Skill(s): - فهم قراءة - كتابة الهزة المتوسطة واستيعاب والمتطرفة وأقسام الأفعال Standard(s): - التنظيم - إنتاج النص التحليل - استخدام اللغة	.pdf الأنشطة الصيفية	من سيربح المليون؟ (لغز وحل).pptx	.pdf روبنسون كروزو
Arabic B	Skill(s): - Oral Reading Fluency & Articulation - Guided Writing & Language Mechanics - Active Listening & Comprehension - Purposeful Speaking & Communication Standard(s): Communication (In response to everyday situations) Language Structures (Pronouns, Prepositions, Signifiers)	Prepositions and verbs in Arabic language Arabic Prepositions and Pronouns Alphabet Types of Arabic Sentences : الجملة الاسمية الجملة الفعلية الجملة الاسمية والفعلية	Summer Packet Phase 1 Summer Packet Phase 2 Summer Packet Phase 3 Summer Packet Phase 4	
French	Skill(s): Phase 1: Identifying		Summer Packets:	Languages Online

	basic vocabulary. Introducing oneself and others. Counting and using numbers. Expressing simple preferences Phase 2: Describing routine activities. Using present tense of regular and irregular verbs Asking and answering simple questions Describing family and hobbies Phase 3: Narrating past events Comparing habits and past actions Expressing opinions with justifications Understanding main ideas in authentic texts Phase 4: Analyzing global themes (Human Rights, Environment) Structuring argumentative essays Defending points of view during debates Standard(s): Phase 1.1: Receptive (Identify simple spoken/written phrases) - Phase 1.2: Productive (Write and speak using basic structures) Phase 2.1: Interactive (Engage in simple rehearsed dialogues)	Les nombres Les couleurs Les jours Les mois Les verbes au présent Grammar Vocabulary Units	Phase 1 Phase 2 Phase 3 Phase 4	
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	- Phase 2.2: Productive (Construct short connected sentences) - Phase 3.1: Receptive (Extract info from multi-paragraph texts) - Phase 3.2: Productive (Write cohesive texts in multiple tenses) - Phase 4.1: Interactive (Spontaneous orals & formal discussions) - Phase 4.2: Productive (Complex syntax and thematic vocabulary)			
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Readiness Reflection

After finishing your chosen challenges, consider:

- Which tier did you reach?
- What is one moment where things "clicked" for you?
- On a scale of 1–5, how ready do you feel for August?

Family Guidance

- Encourage students to complete the packet over time instead of in one sitting.
- Ask students to explain what they notice, how they know, and which resource helped them most.
- Families may support organization and time management, but the final work should reflect the student's own thinking.