

Archaeology & Alberta Curriculum Matrix

Subject Area	Archaeological Skills Applied	Student Competencies Developed	Classroom Application Examples
Art	Artifact analysis; symbolism interpretation; reconstruction drawing	Visual literacy; cultural awareness; creative interpretation	Recreate pottery styles; design symbolic artifacts; analyze Indigenous motifs
Career & Technology Foundations (CTF)	GIS mapping; cataloguing; 3D scanning; documentation	Technical literacy; career exploration; project management	Mock artifact database; intro to drone mapping; heritage career pathways
Computer Science / Digital Literacy	Data management; spatial mapping; digital preservation	Coding logic; data ethics; spatial computing	Build artifact database; map site locations; explore digital archives
English Language Arts	Primary source interpretation; narrative reconstruction; research writing	Critical thinking; persuasive writing; evidence evaluation	Write from artifact perspective; debate site protection; analyze historical bias
Fine Arts (Drama, Music, Visual)	Cultural performance interpretation; ritual analysis	Expressive communication; empathy; cultural appreciation	Dramatize historical events; recreate ancient music; perform storytelling
French Language Arts	Cross-cultural heritage research; bilingual terminology	Language fluency; global awareness	Study Francophone heritage sites; archaeology vocabulary exercises
Health & Physical Education	Skeletal analysis; past diet reconstruction; fieldwork	Human biology understanding; teamwork; outdoor skills	Compare ancient vs modern diets; simulate excavation teamwork

	simulation		
Mathematics	Measurement; statistical analysis; dating calculations; scale mapping	Quantitative reasoning; spatial reasoning	Calculate artifact distribution; create scaled site maps; interpret grids
Science (Biology, Chemistry, Physics, Earth Science)	Stratigraphy; carbon dating; residue analysis; paleoenvironment study	Scientific method; hypothesis testing; interdisciplinary inquiry	Soil layer simulation; radiocarbon calculations; analyze faunal remains
Social Studies	Cultural continuity analysis; migration mapping; land-use study	Historical thinking; citizenship; reconciliation literacy	Map trade routes; explore Indigenous occupation histories; stewardship debates
Indigenous Studies / Perspectives	Collaborative research; oral history integration; land-based learning	Cultural respect; ethical awareness; reconciliation competency	Compare oral traditions with material evidence; discuss stewardship models
Environmental & Outdoor Education	Landscape interpretation; sustainability analysis	Ecological literacy; conservation mindset	Study long-term human impact; analyze ancient resource use