## **Curriculum Unit**

Seeds and The Next Generation

Seed Database

Jennifer Frasher

## KEY LEARNING, ENDURING UNDERSTANDING, ETC.

Incorporating Indigenous wisdom into interactions with the local environment helps students recognize their role in the environment, and the responsibility to become better caretakers. Examining local phenomena and utilizing science and engineering practices to observe and question, deepens understanding.

## **ESSENTIAL QUESTION(S) for the UNIT**

Virtual Gallery for student work

How do Indigenous practices support scientific study and understanding of conservation practices for local plant and seed populations? What indigenous skills can we apply to recognizing and understanding local phenomena?

CONCEPT A	CONCEPT B	CONCEPT C
Seed Evolution and Traits	Evolution of Indigenous Practices	Seed Conservation
ESSENTIAL QUESTIONS A	ESSENTIAL QUESTIONS B	ESSENTIAL QUESTIONS C
What traits did plants and seeds develop to become so successful and diverse?	What practices and beliefs were developed by Indigenous people that benefitted themselves and the environment?	What Indigenous skills can we use to observe and conserve seeds native to our region?
VOCABULARY A	VOCABULARY B	VOCABULARY C
GymnospermPaleobotanyPollinatorAngiospermGerminationNativeEndospermScarificationSeed CoatMonocotDormantCotyledonDicotDispersalFossil Record	IndigenousDecimationMigrateExtinctionPaleoindianPermianMegafaunaCo-evolutionColonizationCeremonial	Companion Planting Ethnobotany Seed Retrieval Seed Bank Seed Storage Cold Stratification Reference Charts
ADDITIONAL INFORMATION/MATERIAL/TEXT/FILM/RESOURCES		
Native seeds Seed id	oresentations from Indigenous people C entification guides peakers or presentations from local plant experts	Good camera or phone for videotaping and still shots of seed experiments and gardening, plus an Osmo (gimble) for providing

stability for filming.