



STEM LEARNING

ROOTED IN COUNTRY

Science • Technology • Engineering • Mathematics

10-WEEK STEM LEARNING FRAMEWORK

Community designed. Culture led. Future focused.

Listening. Learning. Leading. Together.

A GuniBina cultural and STEM learning journey grounded in Country.



PROGRAM OVERVIEW

GuniBina's 10-week learning framework weaves Aboriginal knowledge systems with STEM education, building curiosity, confidence and real-world understanding. Weekly sessions combine hands-on learning, story and On Country experiences, with cultural authority and appropriate knowledge-sharing guiding delivery.

PROGRAM PURPOSE

The program connects science, technology, engineering and mathematics with Country, culture, language and lived knowledge. It is designed for schools and communities and supports meaningful, place-based learning.

FIVE LEARNING AREAS

STARS & SEASONS	Astronomy, navigation and timekeeping from the world's oldest science.
LAND & WATER SCIENCE	Ecology, conservation and sustainable land management.
TRACKS & MEASUREMENT	Maths in nature - patterns, measurement and problem solving.
INNOVATION & DESIGN	Engineering, tools and technology inspired by Country.
LANGUAGE & KNOWLEDGE	Gomeroi language supports understanding, identity and knowledge systems.



10-WEEK STEM LEARNING FRAMEWORK

The source framework establishes a 10-week journey with weekly hands-on learning, story and On Country experiences. The five learning areas below provide the program's core STEM and cultural focus. Specific week-by-week sequencing is confirmed for each school or community delivery rather than fixed in this public document.

STARS & SEASONS	Astronomy • Navigation • Timekeeping
LAND & WATER SCIENCE	Ecology • Conservation • Sustainable land management
TRACKS & MEASUREMENT	Patterns • Measurement • Problem solving
INNOVATION & DESIGN	Engineering • Tools • Technology inspired by Country
LANGUAGE & KNOWLEDGE	Gomeroi language • Identity • Knowledge systems

PROGRAM FEATURES

Integrates STEM & Culture: Connecting Aboriginal ways of knowing with Western science and technology.

Language Strong: Gomeroi language woven throughout to strengthen identity and learning.

On Country Experiences: Learning from Country, Elders and knowledge holders.

Built for Schools & Communities: Adaptable for Primary, Secondary and Community programs.



LEARNING APPROACH

The framework builds learning through hands-on activity, story, observation, language and On Country experience. Aboriginal knowledge systems and Western STEM learning are brought into relationship while cultural authority guides what knowledge is appropriate to share.

PARTICIPANT OUTCOMES

The framework is designed to build curiosity, confidence and real-world understanding; strengthen engagement with STEM learning; support cultural identity and language; and encourage observation, pattern recognition, measurement and problem solving.

Building knowledge. Building confidence.

Building stronger communities.

DELIVERY

Format: 10-week learning journey

Approach: Weekly hands-on learning, story and On Country experiences

Audience: Adaptable for Primary, Secondary and Community programs

Setting: School, community and appropriate On Country learning environments



CULTURAL AUTHORITY & ICIP

GuniBina's cultural learning is delivered under appropriate Aboriginal cultural authority. Cultural knowledge, stories, language and other cultural material remain subject to the rights and responsibilities of the relevant Traditional Owners, knowledge holders and custodians. Participation in the program does not grant permission to record, reproduce, teach, publish or distribute cultural material. Restricted cultural knowledge is not included in this public program document.

WORKING WITH SCHOOLS & COMMUNITIES

GuniBina partners with schools, organisations and communities to deliver culturally grounded learning that strengthens Aboriginal identity and creates opportunities for future generations through STEM.

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THE FIRST YARN

Ancient Knowledge. Modern Storytelling.