

June Quarterly Report

To help our youth of today succeed in tomorrow's world



CoRE
Learning
Foundation

JUNE 2022



PRESENTED TO

CLF Members &
Sponsors

COMPILED BY

Suzy Urbaniak



Table of Contents

03

Executive Summary

04

Gamifying Earth Science

05

Gamifying Earth Science

06

CoRE Schools -
Expansion & Explorers

07

Celebrating CoRE
Schools

08

Connecting Industry &
Education

9

CoRE Resources
Challenge

10

CoRE Operations

11

CoRE Sponsors &
Partners

12

Contact Information

Executive Summary 0622

CoRE Schools - Expansion and Explorers

- Ningham Wheatbelt CoRE Explorer Program and Wheatbelt CoRE Academy Development
 - Five Professional Development days - Bencubbin, Trayning, Koorda & Beacon
- Australian Christian College - Darling Downs CoRE Expansion Launch
- Two Educator Field Trip Dry runs for Bencubbin and Australian Christian College
- Merredin Year 6 CoRE students visit the Geology Department and Geochemistry Isotope Center at Curtin University
- Five field trips
 - Year 8 CoRE Kent Street to Kalgoorlie
 - Year 12 Earth and Environmental Science to Edna May and the Yilgarn Craton
 - Merredin College Year 7/8 to Sandford Rock and Edna May Lookout
 - Merredin College Year 9 to Merredin Energy
 - Joseph Banks Year 7 Lake Joondalup
- IGO Graduate Day with Norseman CoRE restart post-Covid and including submission for DMIRS's Community Award.
- Ashburton School Alliance CoRE Resource Challenge
 - Seven teams from three local primary schools, including 160 students
 - Secondary School Mentors and Rio Tinto Judges
- Preparation for the 2022 Perth Gem and Mineral Show is underway
- Collaboration with NeXus for an educator field trip in South Australia in October

Key Successes



Ten educator professional development days



Two CoRE Expansion School Launches

Gamifying Earth Science - CoRE's National Expansion Program

40 Active Schools

Gamifying Earth
Science Phase 2
begins in Semester 2

Gamification

- Consolidated Celestial Sponsorship from BHP and Eucalypt Sponsorship from Newcrest Mining Limited
- Launch of sponsorship Landing Page
- Development and launch of Gamifying Earth Science Educator Center
- Successful virtual Earth Ed (Victoria) Seminar with four leads and one conversation to date
- Integration of the Games into CoRE PBLs in the Wheatbelt CoRE Expansion and Explorer schools, Paraburdoo, Australian Christian College and Norseman
- Development and incorporation of digital textbooks for the three conversation games (Outback Trail, Uncover, Modern Mine) for the Year 8 Old as Dirt Game
- Preparations are complete for the South Australian Science Teachers Association (SASTA) Conference in Adelaide, including hosting a workshop and a trip to Roxby Downs Area School (primary and secondary) to run a tutorial session for its educators.
- Plans are underway for the Australian Science Teacher Association Conference.

Key Successes



122% increase in student survey responses



22% increase in educator survey responses



BHP Media Release most successful CoRE post with >100 likes

Gamifying Earth Science

A digital learning tool improving Earth Science education and connecting it to resource industry careers.

Benefit

"Real-world applications are engaging, and they encourage content-relevant conversations that help familiarise students with new terminology."



"Knowledge retention increased dramatically. The games put abstract concepts into relevant simulations that the students were in charge of, enabling visual representations of concepts. Student engagement and collaboration improved immensely."



"Initially, students were unsure how to communicate properly to get the game working. Until the leaders stepped up and helped coordinate the roles and responsibilities."

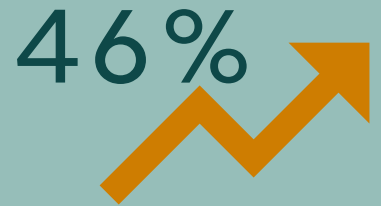


Testimonial

"Kids love games, and quite often, educational games are viewed as 'boring'. These games are the complete opposite. They bring out students' competitive side, simultaneously engaging them and encouraging peer collaboration. The entire time they are learning, and they are completely unaware."
Chantal, Tom Price Senior High School, WA.

CoRE Schools - Expansion & Explorers

Wheatbelt CoRE Expansion



CoRE Explorer Schools ★

CoRE Expansion Schools ★

CoRE Educators Semester 2 2022



CoRE educators from new CoRE Explorer and Expansion schools.

Celebrating CoRE Schools



Connecting Industry and Education - Authentic STEM Learning.



"Students of Norseman District High School were treated to a day of exciting learning activities with Suzy and the IGO Mining Engineer Graduates. Students in years 3 to 6 were very excited to find many colourful common opal specimens at the 'Gem Fields' about 8km from Norseman. They learnt about some of the unique geological factors behind their formation and used exploration tools such as sieves and picks. Students in years 7 and 8 visited a ridge of a rehabilitated gold mine called Red, White, and Blue, which had many spectacular multi-coloured

samples unearthed from mining operations. Students were required to identify the chemical basis for the different colours with the help of Suzy and the IGO graduates. The last activity of the day was exciting for the year 9-10 students, who were delighted to use the IGO VR headsets to learn all about the Nova mining operations near the Fraser Range. The graduates also told them about their mining careers to inspire students' educational choices. The kids had a great day of learning."

CoRE Resources Challenge

Education to Industry Pathways



It was such a great day. Everything ran so smoothly and ahead of schedule. Seven mine sites (aptly named after the rocks and minerals that define the Mt Bruce Supergroup rock sequence) engaged in the 2022 Ashburton School Alliance Resource Challenge.

Students constructed an open-pit called the 'snail.' Competed in an ore race, moving three ore loads to the ROM (run of mine). At the end of the shift, all the miners had to exit the mine and meet at the ROM to conclude the race. Students then had to construct a rail line from the pit to the port, including a make-shift locomotive, carriage, and stockpile conveyor used to load the ship. Moving the ore from the pit to the port defined the second race. The race was not concluded until the value of the iron ore was calculated. The students had to weigh the ore in the ship and undertake a mathematical calculation to complete the value chain of events. The rehabilitation was the final event and involved an equipment and materials audit.

Carnelian from Tom Price won.

CoRE Operations

01

CoRE Learning Support Document sent to Fiona Nash - Federal Regional Education Commissioner

02

Support Document presented to the Australian Institute of Geoscientists (National) for sponsorship

03

Development of WheatBelt CoRE Academy

04

Preparing a White Paper in collaboration with Sandra Occhipinti (Research Director, CSIRO) to seek funding for Earth Science Programs across Australia.

05

Province Resources connection, in collaboration with Carnarvon Community College

CoRE Field Trips
#therealclassroom

Kent Street Year 8 Kalgoorlie Field Trip



CoRE's Sponsors & Partners

CoRE Sponsors



Robbie from Norseman Primary CoRE had a ball in the Norseman Gemfields.



Four Year 7/8 Merredin students who want to pursue a geology career. CoRE in secondary school continues quality Earth Science education enabling students to maintain their passion.



CoRE
Learning
Foundation



Questions? Contact us.

www.corefoundation.com.au

Suzy@corefoundation.com.au

Jett@corefoundation.com.au