STEAM

• Science
• Technology
• Engineering
• Arts
• Maths
Partnerships

• Qld Museum – Reps on Education Reference Team, Creative Labs Workshops (11 staff trained)
• World Science Forum – March 2016 – WESS Ambassadors
• Qld Academy Maths Science Technology Partner School
• Brisbane State High School – Science Fair/ Days/Mentors
• City Cluster – Staffing Yr 3/4 Mini-Festival and Yr 5/6 High Achievers Science Programs
• Holding 2016 Qld Science Teachers Assoc Conference @ WESS
STAFF QUALIFICATIONS – SCIENCE/MATHS

Masters of Education Research - Maths

Bachelor of Science
  • Environmental (1)
  • Zoology(1)
  • Ecology(2)
  • Maths(2)
  • Agricultural Economics

• Applied Science (1)

Post Grad Dip. Occ. Hygiene

Assoc. Dip. Applied Chemistry
STAFF QUALIFICATIONS – ICT

• Masters of Education (Educational Technologies)
• Bachelor Games & Interactive Entertainment (1)
• Bachelor Commerce (1)
• Adv. Diploma Business (1)
• Certificate Computer Technologies (1)
• Apple Distinguished Educator (1)
• Grad. Certificate Educational Computing UNISA
Clubs

• PC and Mac Labs available
• Multi-media Clubs continuing
  • iMovie
  • Photography
  • Garageband
  • Digital Music composition
  • Animation

Many skills have are being embedded in 2016-2019 curriculum design
Clubs

• Code Club Australia
  • Partnership to be Brisbane Hub to host Teacher Professional Development on site for Brisbane teachers

• Coding – Scratch & Python, HTML

• STEAMaker Space
  • STEAMaker Space – circuits, robotics, drones, arduinos, Raspberry Pi, Littlebits, edisons, spheros, makey-makey, mbots, probots, creative building lab.
STEM VS. STEAM

Why Half Is Not Enough

Where Do You Stand?

**Center Brain** (Corpus Callosum)

**Main Functions:**
- Advanced Abilities
- Realization and Ability to Correct Errors

**Both Sides of the Brain Determine:**
- Personality Traits
- Personal Abilities

**Left Main Functions:**
- Controls Muscles on Right Side of Body
- Controls Language
- Math
- Logic
- Speech
- Analytical
- Intellectual

**Right Main Functions:**
- Controls Muscles on Left Side of Body
- Spatial abilities
- Facial recognition
- Visual imagery
- Art & Music
- Emotion
- Creativity

**Teaching Style**
- STEAM: Demonstrated Instructions
- STEM: Drawing and Manipulating Objects
- Prefers Open Ended Questions

**Personalities with Strong Creativity and Technical Skills**

- **Steve Jobs** (Apple, Pixar) - Imaginative
- **Marissa Mayer** - Decision Maker
- **Albert Einstein** - Imaginative
- **Dongsung Chang** - Innovative

**Sources**

http://education.arts.ufl.edu/
STAFF QUALIFICATIONS – MUSIC & ART

• Bachelor Music (2)
• Bachelor Music Hon. (1)
• A. Mus – Distinction (1)
• L.Mus (1)
• Bachelor Visual Arts (1)
• Professional Performers/Artists
STAFF QUALIFICATIONS - MATHS

Masters of Education Research – Maths

Masters of Science

• Mathematics (1)
• Applied Mathematics (1)

Bachelor of Science

• Maths(1)
• Pure Maths(1)
GLOBAL Languages

- WESS awarded DET Languages Innovation Grant - $50,000
- Introduce SPANISH in 2016
- Continue Greek, French, Japanese, Chinese
- Academic English for bilingual students
- Commence Languages from Year 4
- Commence the language of CODING
Look at some examples of the project

MARIO は
13歳です。MARIO は 13 歳です。

TAKEO は
2歳です。TAKEO は 2 歳です。

YOSHINO は
3歳です。YOSHINO は 3 歳です。
STAFF QUALIFICATIONS – LANGUAGES

• Masters of TESOL (3)
• Masters of Languages Teaching (Spanish)
• Bachelor Arts – English (1)
• Grad. Diploma Applied Linguistics(2)
• Undergraduate Degree – French (1)
• Grad. Certificate TESOL (2)
Staff Languages Spoken as either Native Speaker or Fluent

• Greek
• Spanish
• French
• Mandarin
• Vietnamese
• Bosnian
• Serbian Croatian

• Malay
• Japanese
• Italian
• Cantonese
• Polish
• Portuguese
Feedback for Differentiated Learning

- Continue UQ Action research Project F4L commenced in 2015
- Developing Teacher Capacity
- Focus on Academic Rigor & Learning Intent
- Incorporates Differentiated Multi-modal assessment design.
- Planning for timely feedback to students so they have opportunities to demonstrate their understanding
- Includes individual student SMART goal-setting
Reading Comprehension

• Build on 2012-2015 evidence based research conducted @ WESS through QUT longitudinal research project

• Reading Comprehension - Guided Reading through coaching & Investing in Schools Funding for 2 hours /week in every classroom
Active and Healthy Learning

• Implement new ACARA Health and Physical Education Curriculum

• Investigate action research projects with health professionals to develop and incorporate active and healthy opportunities onsite
2016-2019 Key Priority Areas

• STEAM (Science Technology Engineering Arts Maths)
• Reading Comprehension
• Feedback 4 Differentiated Learning
• Data Driven Accountability
• Active and Healthy Learning
• Global Languages (6 Languages includes Coding) through COLLABORATIVE LEARNING
2016-2019 School Strategic Plan

• C2C — adapting Curriculum To the Classroom to provide 
  **Curiosity to Creativity**
• Collaborative Learning—staff and students
• Full **STEAM** ahead
• in many **Languages** (including coding) with a SMILE
We all smile in the same language

WEST END STATE SCHOOL