MELBOURNE FORUM – VERTICAL SCHOOLS
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THE EVOLUTION OF PEDAGOGY DRIVEN DESIGN
KNOWLEDGE AND LEARNING IS PERFORMATIVE

KNOWLEDGE
• A process not a “thing”
• Happens in teams, not in individual experts

LEARNING
• A group, not individual based activity
• Happens in real world problem based contexts

Dr Jane Gilbert
Catching the Knowledge Wave
INNOVATION HUBS

MAKER SPACES

DESIGN SPACES

INNOVATION HUBS

PROTOTYPING LABS
SPECIALIST PRECINCT AREAS

Single Level Model

Multiple Level Model
SATELLITE MODEL

- **Independent, comprehensive** but smaller scale Design, Art, Technology & Science precincts co-located within each Learning Community

- Each floor self contained with **little encouragement for vertical movement** between learning communities.
Distributed Model

- Unique Design, Art, Technology & Science Precincts created across all levels, integrated throughout vertical campus

- Each level has its own curriculum theme, giving purpose for students to move between floors

- Promotes connectivity collaboration and social interest
STANDARD ENTITLEMENT CHALLENGES

- Prahran High School - new campus for 650 secondary students in inner city Melbourne

- Experienced Senior Educators drawn from existing schools within formed a Planning & Design team to reinvasage the educational brief

- Site Area 2,700m2. Typical Site Area for a Greenfield High School 35,000 m2 (3.5 hect)

- DET Entitlement area for a 650 student pop = 6,700 msq final approved designed area = 9,200 msq (incl 1,200msq of outdoor terraces and roof terraces)
AIR CONDITIONING

• Original Design Mixed mode or augmented natural ventilation system using cross ventilation with opening windows and the stack effect through the atrium.
• Changed to Fully Conditioned System due to the parameter of ensuring the internal temp never exceeded 26 C

ACOUSTICS

• Solution fabric lined acoustic panelling through the atrium walls to Control of reverberation times through the atrium and noise spill from Music and Drama
• School managed close operable walls for noisy activities
• Gym Sprung gym timer floor on resilient rubber mounts
• Technology Activities affecting adjacent learning spaces. Solution: increased acoustic performance on walls, using store rooms as buffer zones

SAFETY AND SECURITY

• Balustrade Height - 1200mm or 1500mm or 2000mm. Direction to set at 1,500mm