

# Cognitive Architecture

rethinking thinking



ELEMENTS

## THINKING SCIENCE

Thinking Science is a Cognitive Acceleration program for students in year 7 and year 8. Grounded in Piagetian and Vygotskian psychology, Thinking Science has been shown to dramatically improve learners' general thinking ability which in turn leads to improved educational outcomes.

ELEMENTS is a one-day event, day 3 of the Thinking Science Professional Learning Series. It



A LITTLE THEORY



THE LESSONS



ONGOING SUPPORT



BRISBANE - FRIDAY 11 MAY 2018

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[www.cognitivearchitecture.com.au](http://www.cognitivearchitecture.com.au)

# Thinking Science Professional Learning Series

## ELEMENTS (Day 3)

### Learning Goals



#### Session 1 – Thinking Science Pillars Revisited

By the end of this session participants will be able to:

- explain how each of the five pillars of Thinking Science fit into a lesson;
- analyse a lesson against the five pillars;
- define in simple terms the purpose of the five pillars in the context of Cognitive Acceleration;
- adapt lesson structures to accommodate the five pillars.

#### Session 2 – Identifying Cognitive Demand (Piaget’s Stages)

By the end of this session participants will be able to:

- differentiate between Piaget’s stages of cognitive development and know roughly when each occurs;
- describe thinking patterns in terms of Piagetian stages;
- make judgements using the Curriculum Analysis Taxonomies.

#### Session 3 – Formal Operational Thinking

By the end of this session participants will be able to:

- cite specific examples of formal thinking;
- assess questions in their ability to promote formal thinking;
- critique responses to metacognitive questions and show where formal thinking patterns are evident.

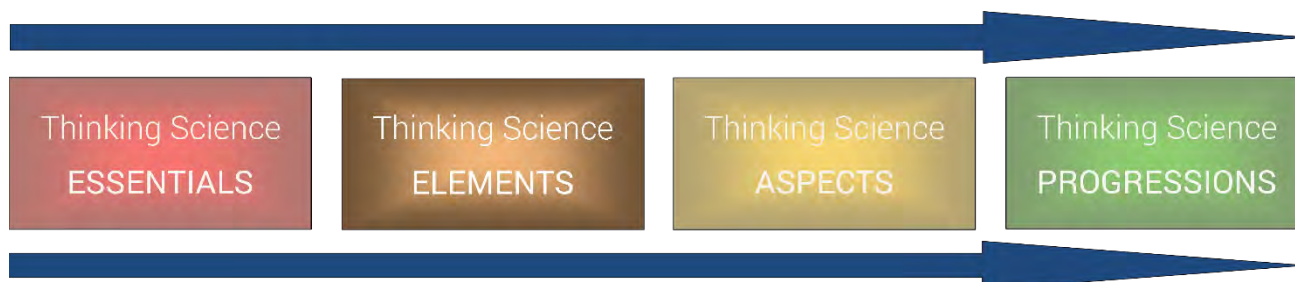
#### Session 4 – Getting a Handle on the Lessons

By the end of this session participants will be able to:

- deliver lessons 8 - 14 to bring about Cognitive Acceleration;
- advise colleagues on how to deliver year 1 of Thinking Science;
- recommend equipment and resources to colleagues and technicians.

**Thinking Science ELEMENTS** (day three in the Thinking Science Professional Learning series) is a one day (7 hours) course leading to accreditation once all eligibility criteria have been met. The balance of theory to practical in **ELEMENTS** is about 50:50 – significant opportunity for reflection on the first 7 lessons is provided; participants should have some experience of teaching Thinking Science lessons.

**Eligibility for Accreditation:** Thinking Science **ESSENTIALS** accredited, Delivered lessons 1 to 5 of the Thinking Science program at least once.



# INTRODUCTION TO THINKING SCIENCE

## Professional Learning Registration Form (or Online)

I / we would like to register for **THINKING SCIENCE ELEMENTS**

I / we will be attending the professional learning event in Brisbane, QLD at:

**Hillbrook Anglican School, Enoggera, on Friday 11 May 2018, 8.30am—4pm**

*Registration closes: midnight on 4 May*


I / we enclose payment of \$289+GST per delegate or please send me/us a Tax Invoice. (A confirmation and receipt will be issued when payment is received.)


Please complete the registration details and email this form to **admin@cognitivearchitecture.com.au**

Name of attendee	Mobile	Email Address

School:	
Address:	
Phone:	
Accounts Department contact:	
Purchase order number (If needed):	

Return to:


 **admin@cognitivearchitecture.com.au**

 **Cognitive Architecture**

**4 Yeldham Court**

**Annandale**

**QLD 4814**

 **0498 642 192**

**Payment details:**

EFT

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# Cognitive Architecture

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