



# Cognitive Education



ROEDEAN SCHOOL (SA)  
INSPIRING A LIFE OF SIGNIFICANCE

## Cognitive Education Programme

The Cognitive Education Programme plays a large part in building an effective learning community with the goal of producing independent, creative, critical and reflective thinkers who will be equipped to thrive in the rapidly changing world in which they will work and live.

Roedean School (SA)'s Thinking School journey was initiated in 2009 and in 2017 the school became the first whole school (Gr 0 – Gr 12) in South Africa to be accredited as a Thinking School by the University of Exeter. In 2020, we heard the exciting news that the whole school has now been granted Advanced Accreditation status; again a first in South Africa. We strive to prepare our girls to lead a 'life of significance' and the Cognitive Education Programme plays an important role in this preparation.

The programme aims to develop and enhance the girls' ability to:


















- exercise metacognition;
- reason logically;
- think strategically;
- problem solve;
- innovate, create, imagine; and
- communicate effectively.

The thinking skill strategies implemented throughout the school are based on thorough and well-accepted academic study and research.











## The Habits of Mind

The Habits of Mind, developed by Art Costa and Bena Kallick, provide the umbrella framework for the implementation of the programme. The Habits of Mind are dispositions that empower creative, critical and ethical thinking. The understanding and application of the Habits equip the girls to respond to a problem by using awareness (cues), thought, and intentional strategy in order to gain a positive outcome.

	PERSISTING		TAKING RESPONSIBLE RISKS
	MANAGING IMPULSIVITY		THINKING INTERDEPENDENTLY
	STRIVING FOR ACCURACY		REMAINING OPENING TO CONTINUOUS LEARNING
	THINKING FLEXIBLY		METACOGNITION
	THINKING AND COMMUNICATING WITH CLARITY AND PRECISION		QUESTIONING AND PROBLEM POSING
	CREATING, IMAGINING AND INNOVATING		LISTENING WITH UNDERSTANDING AND EMPATHY
	RESPONDING WITH WONDERMENT AND AWE		GATHER DATA THROUGH ALL SENSES
	FINDING HUMOR		THINKING DIGITALLY
	APPLYING PAST KNOWLEDGE TO NEW SITUATIONS		

## Thinking Maps

The Thinking Maps, developed by David Hyerle, are eight visual process maps. These eight maps correspond with the eight fundamental cognitive processes of defining, describing, comparing and contrasting, classifying, sequencing and ordering, understanding cause and effect, seeing analogies and analysing whole objects and their parts. These maps enable the girls to move from concrete to abstract concepts, think with depth, and apply their thinking directly to complex tasks.

<b>CIRCLE MAP</b>		FOR DEFINING IN CONTEXT
<b>TREE MAP</b>		FOR CLASSIFYING AND GROUPING
<b>BUBBLE MAP</b>		FOR DESCRIBING USING ADJECTIVES
<b>DOUBLE BUBBLE MAP</b>		FOR COMPARING AND CONTRASTING
<b>FLOW MAP</b>		FOR SEQUENCING AND ORDERING
<b>MULTI-FLOW MAP</b>		FOR CAUSES AND EFFECTS
<b>BRACE MAP</b>		FOR ANALYZING WHOLE OBJECTS AND PARTS
<b>BRIDGE MAP</b>		FOR SEEING ANALOGIES

## Thinking Hats

De Bono's Thinking Hats are a simple but powerful tool which enables the girls to become creative, constructive and productive thinkers by broadening their perceptions, defending a point of view, generating solutions to challenges and separating emotions from facts. The Hats assist the girls to become more productive, focused and mindfully involved.



## Visible Thinking

Visible Thinking is a flexible and research-based approach to integrating the development of thinking with content learning across different subjects. This approach was developed by Harvard University's Project Zero. The Visible Thinking Routines help make thinking visible by loosely guiding thought processes and encouraging active processing. The routines are short, easy-to-learn mini-strategies that extend and deepen thinking.

