Data for C	athedral programme - 4 - 1 hr sessions
Construct	Conduction Conduction

**Colour coding: Execute** 

Grade 5	Grade 6	Grade 7	
Fibonacci encoding	Die hard	Truth tables to logic ga	
	Ternary cards trick and emphasis on		
	number of bytes used in the		
	computer		
Finite state machines	and other place value systems	Machine le	arning
Map colouring	Djisktra's shortest path	Symbolic Lo	ogic
OOP	XOR gate and applications	Al	

## Extra topics

Identify perfect squares

Dyck path

8 queens

Nim

Functional programming

Java script game

ed and have material ready