



# AICAMP CURRICULUM OVERVIEW

YEAR 4-6  
AFTERSCHOOL PROGRAM



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# AICAMP Year 4–6 After School Program



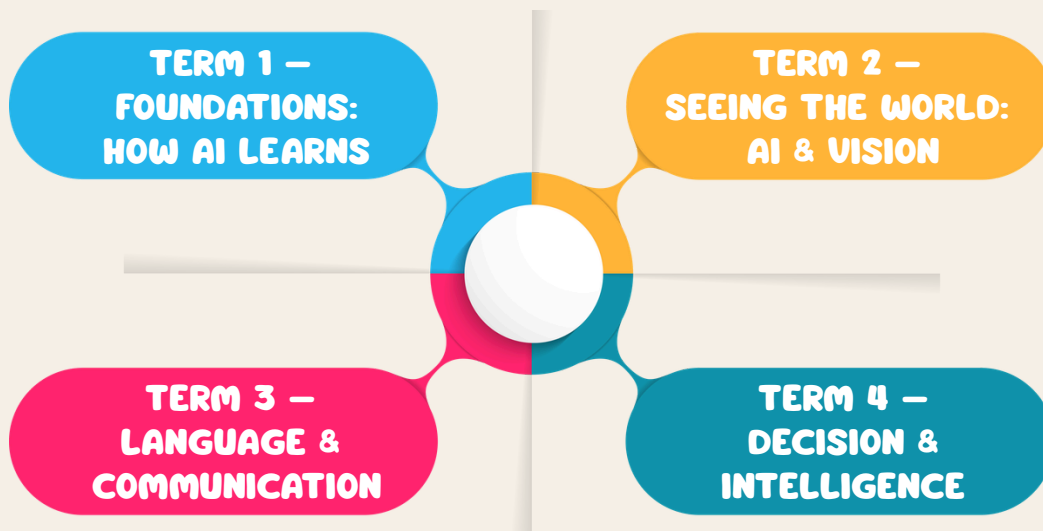
A future-focused AI learning journey for young creators.

Delivered on campus across four school terms, AICAMP introduces Year 4–6 students to the foundations of artificial intelligence through hands-on exploration, creative projects, and real-world problem-solving. Each term includes 9 weekly lessons, held 3:35–4:35 PM after school.

Across the year, students explore how AI learns, sees, communicates, and makes decisions – moving from basic machine learning to computer vision, language AI, generative models, robotics, and autonomous systems.

At AICAMP, children do more than use technology.

They learn to understand it, question it, and create with it.





# TERM 1

How does AI learn?

# AI CAMP LEARNING ROADMAP

Year 4–6 | Explore • Learn • Grow • Create



Australian Curriculum Aligned

Your AI adventure starts here!

## INTRO

All computers complete tasks by following instructions called algorithms. But when a computer uses artificial intelligence, these algorithms are so complex they can tell the computer to teach itself new skills.

How do computing experts get computers to be that smart? Well, they find inspiration from the human brain. No one knows exactly how human brains work. But we do know that they contain billions of brain cells, called neurons, which connect with each other in complex ways.

When we think, learn and solve problems, information flows between neurons. Inspired by neurons, AI is often programmed with a type of coding known as an artificial neural network. This instructs a computer to manage information similarly to the way experts think a human brain does.



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### How AI learns



Discover how AI takes in information and learns from it—just like the human brain!

102

### Supervised Learning



AI learns from examples with answers. We teach, it learns!

103

### UnSupervised Learning



AI explores data without answers and finds patterns on its own.

104

### Reinforcement learning



AI learns by trying, getting feedback, and improving!

105

### Neural Networks



Layers of 'artificial neurons' work together to solve complex problems.



106

### AI Mistakes



AI isn't perfect! Learn why mistakes happen and how we can make it better.

107

### Agent



AI agents perceive the world, make decisions, and take actions to achieve goals.

108

### Ethics, morals, and values



Why it's important to use AI responsibly and respectfully.

109

### Introduction of CV



Explore how computers 'see' and understand images!

## YOU DID IT!

You've completed Term 1!



As you learn and grow, you will:



Think Critically



Solve Problems



Communicate Ideas



Work Together



Create a Better Future

The future is in your hands. Keep curious, keep kind, keep learning! 🌟