CODING

PWP TERM 2

Sutherland Dianella Primary

5 Sutherland Ave DIANELLA WA 6059 | T: 08 9375 1133 | F: 08 9276 9246 | E: info@SDPS.wa.edu.au

INTRODUCTION

Welcome to Coding Partnerships with Parents. Today we are covering the following areas

- *What is Coding?*
- *Why is it important?*
- *Coding at SDPS*
- *What you can do at home*
- *CoDiNg BrAiNs To ThE tEsT*
- *Different resources with appropriate age recommendations*
- *Q & A*

WHAT IS CODING?

Sutherland Dianella Primary

https://www.youtube.com/watch?v=THOEQ5soVpY

- ALGORITHM

a list of steps that you can follow to finish a task

Why code?

Sutherland Dianella Primary

We are currently in a 21st century world that is continually changing and evolving and so is Technology. Students are in contact with technology on a daily basis and it is important that we provide them with the necessary skills to be up date with our world.

As shown in the video every piece of technology is run by some sort of coding or computer programming which allows for it to work effectively.

- Coding drives innovation. From self-driving cars to robot-assisted surgery to social media, computer science is revolutionizing every aspect of our lives. Coding is a fundamental skill that children need to learn so they can lead this movement.

- Coding allows kids to be creative. They can create projects that do really amazing things.

- Coding builds confidence. It is incredibly empowering for children to be able to create projects and show them off to family and friends.

- Coding is best learned early. Learning to code is similar to learning a second language. The earlier that children are exposed to fundamental topics like sequencing, loops, and conditionals, the more deeply they absorb these concepts.

- Coding translates to success in other areas. Learning to program supports learning in other areas, like math, reading, and science.

Coding at SDPS

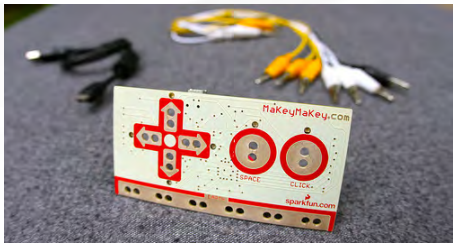
Sutherland Dianella Primary

Current Devices

- Bee Bots
- Makey Makey
- Little bits
- Dash and Dots
- Sphero's
- Ev3
- Edisons

Apps

- Hopscotch
- Scratch
- Scratch Junior
- Tynker
- Code.org
- Daisy the Dino



Time to get our hands warmed up with some practice!

There are three different activities that we will run through

1. Sphero's
2. Code.org
3. Bee Bots

This will give you a quick insight into what the students are involved in and how we implement it into the classroom.

WHAT YOU CAN DO AT HOME

Sutherland Dianella Primary

- Family Hour of code
- Coding Competition
- Code.org
- Unplugged Activity – No Internet required
- Sphero – roughly $180.00 JB Hi Fi

AGE APPROPRIATE CODING

Sutherland Dianella Primary

- Ages 5-7 (Tynker, Kodable,Daisy the Dino and Scratch Junior) IPad apps that build the foundations for kids to begin their coding journey
- Ages 8+ (Hopscotch, Scratch, Code academy) IPad apps which further build and extend their knowledge.
- Code.org (useful for ages 6+)
  Recommended to use once they have basic coding awareness

Sutherland Dianella Primary