

Investigating and defining, Evaluating

In Years 1–2, introduce the foundations of design thinking by guiding students to investigate and evaluate familiar digital solutions. At this stage, the emphasis is on understanding the needs of known users, which lays the groundwork for future learning. This focus will prepare students for subsequent years, where they will create user stories and define problems, enhancing their ability to empathise with users and generate designs that can be implemented as effective solutions.

Foundation

This concept does not appear in the Australian Curriculum: Digital Technologies – Foundation.

There is related content in Design and Technologies.

Related content



Design and Technologies

Generate, communicate and evaluate design ideas, and use materials, equipment and steps to safely make a solution for a purpose | AC9TDEFP01

Investigating and defining

I can identify problems that my friends, my school or I face and think about how digital systems can help solve them.

Investigating simple problems for known users involves identifying everyday challenges faced by users such as themselves, friends or the school community, and thinking about how digital systems can offer solutions.

The school can often provide examples of digital solutions to investigate. These may include the school library borrowing system, student attendance and home–school communication.

Follow a simple process to investigate digital systems:

- 1. Identify a problem or need:** such as borrowing books
- 2. Explore a digital solution:** show how the school library system addresses the need
- 3. Encourage questions:** How does the system work? How does the system help us? Who is it for?
- 4. Represent what they learned:** use photos to show a student new to the school how to borrow a book.



Achievement standard

By the end of Year 2, students show how simple digital solutions meet a need for known users.

Content descriptions

Investigate simple problems for known users that can be solved with digital systems | AC9TDI2P01
Discuss how existing digital systems satisfy identified needs for known users | AC9TDI2P03

Evaluating

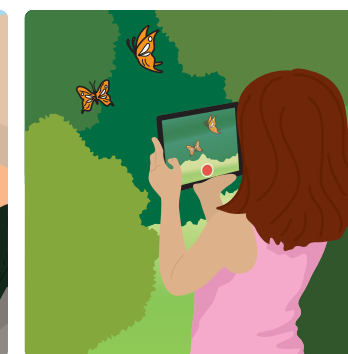
I can describe ways digital systems help meet the needs of people I know, like my friends and family.

Discuss how existing digital systems satisfy identified needs for known users.

Describe how well a digital system meets the needs of users. Reflect on the use of a familiar digital system, for example, the school library borrowing system.

The library borrowing system:

- makes it easy to check out and return books quickly
- keeps track of what each person has borrowed
- records the due date.



Students can explore the needs of people in their family and how a digital system such as a tablet is used by each member.

Choose a familiar digital system. Explore the question, ‘What if we didn’t have this technology?’ They imagine and discuss how tasks would be performed without it. They discuss how a digital system satisfies the needs of users.

What if?