

Topic 1.1: Collaboration

LO: CRD-1.A, CRD-1.B, CRD-1.C | Skill: 1.C, 6.A | Scenario: 1A: The TideTrack App Team

Guided Notes — Topic 1.1

Fill in the blanks during the slide presentation. Use exact terms from the slides.

Section 1 — What a computing innovation is

A computing innovation is anything that includes a **program** as a core part of how it works. It can be physical, like a smart watch; non-physical software, like a photo-editing app; or even a non-physical **concept**, like a method for keeping data private.

The people who design an innovation decide what it can do — and what it accidentally **ignores**. That is why who is on the **team** matters so much.

Section 2 — How collaboration improves an innovation

When a team brings together a mix of talents and **perspectives**, the finished product reflects that variety and is usually **stronger** than what one person could build alone.

A team with diverse perspectives is also far less likely to build in **bias**. A narrow team can ship a feature that quietly fails for a whole group of **users** they never thought to include.

Good teams also talk to real and potential **users** early. The information they gather helps shape the **purpose** of the innovation so it solves a real problem.

Section 3 — How teams work together

Teams use online **tools** to share documents and code, leave **feedback** on each other's work, and keep track of who is doing what.

One common model is **pair programming**. Two people share one computer: the **driver** types the code, and the **navigator** reviews each line, watches for mistakes, and keeps the plan in mind. The two partners **swap** roles regularly.

Healthy teams also practice four interpersonal skills: clear **communication**, building **consensus** so everyone can support a decision, resolving **conflict** as a shared problem, and **negotiation** so each person compromises a little.

Quick check

In pair programming, the partner with hands on the keyboard is the **driver** and the partner reviewing the work is the **navigator**.

The single biggest reason to put diverse perspectives on a team is to avoid building in **bias** and to make the product work for more **users**.