

# Guide for the analysis of raw materials

## Analysis of the content (maths and CS) of the principal task (problem, activity, ...)

(i.e., “What is the content that could be involved in this task”)

### I. Analyze the task

- Study the material (and, if there’s a problem/task, try to solve it).
- Write down possible relevant questions, anticipate and write down possible students’ answers, correct or not.
- List various strategies that can be used to solve the problem/task (successful or not).
- Identify the mathematics and computer science notions involved.
- Make explicit the possible difficulties or errors and the ways to overcome them. How might recognising these difficulties or errors help the students to find a solution?

### II. Analyze the potential of the task for interdisciplinarity

1. (Identification) *What disciplines can you identify in the current “raw material”? What are the roles of each? What tools and knowledge might these disciplines provide?*
2. (Coordination) *How would you describe the relationship between the disciplines involved?*
  - a. *Are there any problems or questions that knowledge from one particular discipline could be sufficient to solve or answer?*
  - b. *On the opposite, which problems, issues, or questions would require knowledge from both disciplines and their interaction?*