Planning a pedagogical activity consistent with the technology



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| **Content (C)**: Math, Secondary III - algebraic resolution |
| **Selected pedagogical activity** | Puzzle to solve (present a problem requiring algebraic resolution) <https://www.polymtl.ca/vignettes/enigme-resoudre> |
| **Activity objective** | Ability to solve a two-variable first-degree system of equations of the form *y = ax + b* algebraically (by comparison). |
| **Sequence** | Explanation in synchronous Exercise in asynchronous |
| **Activity duration** | **Explanations: 20 minutes****Availability of the teacher throughout the week to answer questions.** |
| **Moment (M)** | **To be done by the teacher (P)** | **Technological tools (T)** | **To be done by the student (P)** | **Technological tools (T)** | **Assessment and appraisal (TPACK)** |
| **Before the course (preparation)** | Go back to the equation on the right (prior knowledge). | Moodle | Read the problem to be solved. | Moodle |  |
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|  | Share the problem to be solved with the students before the synchronous session. | Moodle | Attempt to solve the problem by reactivating prior knowledge. | Moodle |
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|  | Answer students' questions about when and how to meet. | By Teams (via chat or publication wall) | Question the teacher if necessary. | By Teams (via chat or publication wall) |
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|  | Prepare a clip explaining the new concept in order to make it available after the session. | Screencastify |  |  |
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| **Moment (M)** | **To be done by the teacher (P)** | **Technological tools (T)** | **To be done by the student (P)** | **Technological tools (T)** | **Assessment and appraisal (TPACK)** |
| **During the course (execution)** | Reread the shared problem with the students before class. | Teams | Share strategies and questions. | Teams |  |
| Have students discuss the adopted strategies. | Share the screen with students so that they can all see the problem. |  |  |
| Explain how a two-variable system of first-degree equations of the form *y = ax + b* is solved. |  | Question as needed. | Teams |
| **After the course (feedback, follow-up and adjustment)** | Provide a video explaining the algebraic resolution. | Moodle | Do the exercises. | Moodle |  |
| Provide exercises for the students to do. |  |  |  |
| Answer questions and provide the students with feedback. |  |  |  |
| Validate the strategies of the students. |  |  |  |