Desirable features

High-quality performance is evidenced by:

- deep understanding and mastery of aspects of language use with respect to style, tenor and intention. This task demands language use in the following ways:
  - p récis writing, protocols of introduction and formal correspondence
  - explaining chemical and biological structures and systems with due regard to nomenclature and notations of science.
- accurate and detailed knowledge of a range of scientific techniques, and meaningful contribution to laboratory activities.
- deep analysis of a biotechnological issue, examined by means of presentation abstracts for six real-life people who can be seen to make distinctive, valuable contributions and who collectively fulfil the conference aim to foster appreciation of the range of views uncovered.

Acceptable performance (successful task completion) is evidenced by:

- identification of the science and ethical implications of an issue in a biotechnological process.

YEARS 7–9

TASK #1

Science and Ethics Confer

New Basics referents

Multiliteracies and communications media

• Mastering literacy ...

Active citizenship

What are my rights and responsibilities in communities, cultures and economies?

Environments and technologies

• Developing a scientific understanding of the world

• Working with ... engineering technologies

Targeted repertoires of practice

• Applying the etiquette of formal correspondence

• Applying the protocols of introduction

• Compiling an academic program for a conference

• Focused research and analytic skills

• Laboratory practices

• Organising ideas and data, sifting through them, arranging them wisely and making sense of them

• Précis writing with a purpose

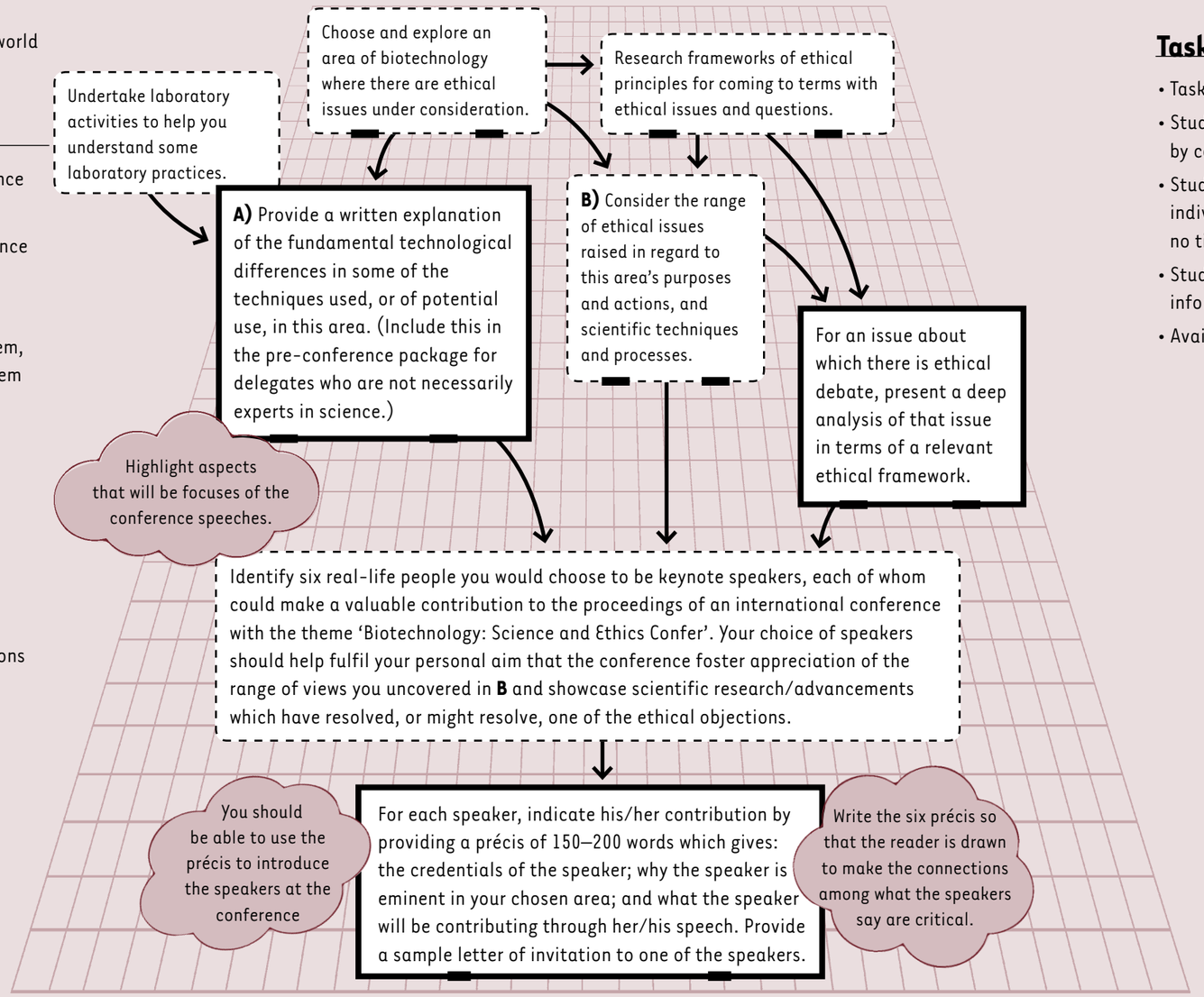
• Time management

• Understanding various biological structures and systems, and the associated concepts, nomenclature and notations

• Understanding various chemical structures and systems, and the associated concepts, nomenclature and notations

• Understanding what constitute ethical questions and principles

Students will identify, explore and make judgments on a biotechnological process to which there are ethical dimensions. They will identify scientific techniques used, along with significant recent contributions to the field. They will also research frameworks of ethical principles for coming to terms with an identified ethical issue or question. Using this information, they will prepare pre-conference materials for an international conference that will feature selected speakers who are leading lights in their respective fields.



Ideas, hints and comments

• Take into account the diversity of activity encompassed by the terms *biotechnology* and *engineering technologies.*

• Think of the various opinion-makers and stakeholders in science, ethics, religion, public policy, economics, and special interest groups.

Task parameters

• Task intensity: high

• Students may work individually or in pairs/triads by consent of all group members.

• Students must write their explanations (Box A) individually, under controlled conditions, with no time limit and without seeking clarification.

• Students must provide a folio containing all information on which their work is based.

• Available grades: 4