Enjoy these samples pages from our card set:

**Content Imperative Cards**
by Sandra N. Kaplan & Bette Gould

**Pages:**
Introduction Brochure, “Contribution” card (front and back),
“Origin/Multiple Perspectives” card (front and back), *Content Imperatives*
on one page, *Content Imperative/Depth & Complexity Icon* combo cards on
one page

* The *Content Imperative Cards* contain an introduction brochure, and one laminated
8.5” x 11” card for each of the content imperatives: **origin, contribution, parallel,**
**convergence, paradox.** The set also contains 5 combination cards, where one content
imperative is paired with an element of depth & complexity: **origin/multiple
perspectives, contribution/rules, parallel/paradox, convergence/details,**
**paradox/trends.** On the front side the each card is the icon that represents a content
imperative (and the element of depth & complexity on the combo cards.) The reverse side
of the card contains multiple lists, task starter ideas, and discipline specific ways to use
the icon(s) pictured.
Content Imperatives as Part of a Lesson

Motivation
A content imperative card can be used as a preface to a lesson. The selected content imperative card can stimulate discussion as a form of readiness for a lesson or to activate prior knowledge as a bridge to a lesson.

The teacher stimulated discussion about the contributions of people to our contemporary way of life. This is an example of a warm-up or motivational discussion to begin a lesson on “Inventors and Inventions” from the core or standards-based curriculum.

Discussion during a lesson
A selected content imperative can be used on its own or combined with a dimension of depth and complexity to promote a discussion within the context of the lesson being taught.

The teacher showed the content imperative card and the pattern icon to the class as students were learning about the variances in plot development identified in different genre. The teacher asked students to describe parallel plots that share common patterns within various genre.

Follow-up assignment
A selected content imperative card can be used on its own or combined with a dimension of depth and complexity to guide practice or study as a culmination to a lesson.

The teacher showed the content imperative card, paradox, to the class as well as the icon for multiple perspectives and discussed the meaning of the term: contradictory points of view that may both be true. At the conclusion of a study of conservation, students were instructed to read newspaper articles, journals and brochures to identify paradoxical situations related to conservation.

Content Imperative and Depth and Complexity Cards in a Learning Center
The Content Imperative Cards and the icons or cards representing the dimensions of depth and complexity can be used to organize a learning center that is directed toward the study of a topic. A learning center can include materials relevant to the topic along with various icons of the content imperatives and depth and complexity for students to choose from in order to promote learning the teacher-selected topic in a student-directed manner.

Example: The teacher designated a site in the classroom to establish a “Communities” learning center. The teacher posted several questions for students to use as study guides: What does “Community” mean? and, How do communities provide goods and services. Students mixed and matched a content imperative card with a depth and complexity card or icon to define how they would respond to the study questions. Books, maps and other materials were placed at the center to facilitate students’ study of the learning center’s topic.

Content Imperative Cards and Depth and Complexity to Define Independent Study
The Content Imperative Cards used in conjunction with the depth and complexity cards or icons can help students outline or define the areas within a study that best correlate to their own needs, interests and abilities.

The student’s interest in pursuing the findings of the investigation of Mars by Spirit and Opportunity determines how to match content imperatives and dimensions of depth and complexity to form sets of prompts that will guide the study of space exploration. The teacher provides each student with a Learning Log to be used to record the student’s study plan and to keep track of progress being made.

To study: __________________________
I will: __________________________
I will need these books: _____________
And pictures: _______________________

Date: ______________
My Accomplishments today: ________
Next time I will: ________________
My Learning Log
CONTENT IMPERATIVES FOR DIFFERENTIATING CONTENT

Just as keys unlock a door, the content imperatives are terms that unlock meaning of an area or topic of study. Each content imperative provides students with a prompt to initiate inquiry about subject matter. They focus the investigation of a topic of study from a broad, general area to a more structured and specific one. Note the differences in these two examples:

Students will investigate different elements of weather related to farming. 
Students will investigate the convergence of different elements of weather on farming.

The content imperatives and their intended meanings as members of this set of prompts and the icons that represent them are shown below.

ORIGIN or how things got started or began. 
CONTRIBUTION or the benefit or effect of some action or attribute.
PARALLEL or how areas of study share common characteristics. 
PARADOX or how things simultaneously can pose opposing or contradictory ideas. 
CONVERGENCE or how ideas meet to form a new or different idea.

The content imperatives can be used as prompts to construct questions to stimulate the investigation of subject matter. What are the CONTRIBUTIONS of weather to farming?

The content imperatives can be used a prompts to design a task statement to stimulate the investigation of subject matter. Define the CONVERGENCE of weather elements as related to farming in the Midwest by constructing a chart.

The relationship of the content imperatives to the dimensions of depth and complexity is significant. Each set of prompts strengthens students’ abilities to focus on and investigate knowledge at more advanced and sophisticated levels. When used in tandem with the dimensions of depth and complexity, the content imperatives provide specificity to those dimensions. Note the differences in the following examples:

dimension of depth
Students will investigate weather trends that affect farming in different locations.

content imperative & dimension of depth
Students will investigate the convergence of the weather trends that affect farming in different locations.

The first task represents the sole use of a dimension of depth, while the second task requires investigation of a topic that involves a relationship between both a content imperative and an element of depth.

When mixing and matching prompts from the two sets, the two criteria teachers and students should keep in mind as they relate the content imperatives to the dimensions of depth and complexity are: 1) the learning experience should be feasible for students to accomplish, and 2) the learning experience should be worth the time and effort students must expend in order to accomplish the task.

The Role of Content Imperatives in a Differentiated Curriculum

The original intent of developing content imperatives was to differentiate the core curriculum so that it is aligned to the needs and abilities of gifted and high-ability students. The content imperatives represent a set of terms that activate higher levels of knowing. They demand more sophisticated resources of information, more analytical thinking to understand the subject matter and more complicated products to share what has been learned.

The dimensions of depth and complexity predate the content imperatives. The question of how to stimulate greater depth and complexity of understanding for students led to the identification of another set of terms to be used with depth and complexity. These terms became the content imperatives, which, along with the dimensions of depth and complexity, facilitate attainment of the goal: higher levels of knowing.

About the Content Imperative Cards

Individual content imperatives and each content imperative combined with a dimension of depth or complexity are illustrated on the cards of the set. One card shows the various icons as a group. The reverse of each card lists suggested ways to put these icons into practice. Each box lists possibilities for formulating learning tasks and bringing the content imperatives into discussions and projects. Teachers may make their own lists to match the standards of their grade and the needs of their students.

PUTTING THE CONTENT IMPERATIVE CARDS INTO ACTION

The Content Imperative Cards are visual aids for both teachers and students. Like all visual aids, these cards can be used for many different purposes. It is important to recognize that these Content Imperative Cards are intended to facilitate teaching and learning; they are not mere classroom decorations.
contribution
Sample Tasks

Use language of the disciplines (economy, history) to describe the contributions, over time, of two economists.

Prioritize the relative value of medicines developed from plants of the rain forest.

Choose “the most important early mathematician” and support your choice with evidence.

Judge with criteria the impact of the protagonist and antagonist on a story’s plot.

Contributions within the Disciplines, a Sample List

<table>
<thead>
<tr>
<th>Language Arts</th>
<th>Math</th>
<th>Social Studies</th>
<th>Science</th>
</tr>
</thead>
<tbody>
<tr>
<td>famous authors</td>
<td>Euclid, Pythagoras, and early mathematicians</td>
<td>contributions of various civilizations</td>
<td>space travel</td>
</tr>
<tr>
<td>interesting adjectives; adverbs</td>
<td>ancient pyramids</td>
<td>explorers and pioneers</td>
<td>vaccinations/cures</td>
</tr>
<tr>
<td>playwrights</td>
<td>Isaac Newton</td>
<td>activists, freedom fighters</td>
<td>Van Leeuwenhoek</td>
</tr>
<tr>
<td>story settings</td>
<td>computers</td>
<td>economists</td>
<td>Einstein’s and other scientists’ theories, principles, laws</td>
</tr>
<tr>
<td>protagonists/antagonists</td>
<td>Internet</td>
<td>cultures</td>
<td>experimentation techniques</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Founding Fathers</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>archaeology</td>
<td></td>
</tr>
</tbody>
</table>

Related Thinking Skills

- differentiate relevant from irrelevant
- judge with criteria
- prioritize
- prove with evidence

Related Depth and Complexity Dimensions

- rules
- language of the discipline
- ethics
- relate over time

contribution: related terms
- value
- achievement
- perseverance
- creativity
- impact
- participation in
- share
- significance
- effects
origin

multiple perspectives
Sample Tasks
Categorize multiple perspectives about a contemporary movie, book or game. Trace the origins of these perspectives to social, personal and academic relationships or experiences.

Prove or disprove with evidence based on an actual political hero's life that point of view is rooted in a person’s culture.

Note the incongruity in the origin of points of view professed by a real and a fictional scientist. Discuss how the origin of points of view may further or hinder the development of scientific knowledge.
Content Imperatives

origin
contribution
parallel
convergence
paradox

Acknowledgments: Definitions of dimensions of depth and complexity are from “Differentiating the Core Curriculum and Instruction to Provide Advanced learning Opportunities”, California Department of Education and California Association for the Gifted, 1994. Symbols for dimensions of depth and complexity and the content imperatives developed under the auspices of OERI, Javits projects, 1996 and 1999.
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