Differentiated Visual Tools™ for Science

Grade 6-8 Content Standards and
Common Core Standards: English
Language Arts Standards »
Science & Technical Subjects

WHAT'S IN THE PROGRAM:

- **47** different *Science DVTs,* each in the form of both a Power Point slide (.pptx) and Interactive Adobe PDF document with embedded textboxes.

- Samples of how K-12 teachers have used each of the DVTs

- Step-by-Step guidelines for implementing an array of specific teacher-assisted and peer-assisted routines designed for use *Before / During / After* a lesson.

A free demonstration version of this program may be downloaded from
www.MakesSenseStrategies.com.

The fully-functional version of the program is available for purchase and immediate download at www.MakesSenseStrategies.com. (single-user license). Purchase orders accepted.

For information about multi-user licenses or bulk purchases of the program, please contact us at VisualTools@MakesSenseStrategies.com

$39

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DESCRIPTION

The *6-8 Differentiated Visual Tools for SCIENCE Reading and Writing Core Standards* consists of a collection of interactive **discipline-specific** visual tools designed to address science content standards associated with learning essential understandings of generative ideas in science. Thus, the program includes DVTs designed to address key essential understandings associated with the following topics:

Phenomena	Procedure / Process	Discoveries	Life Forms
Theories	Structures & Systems	Experiments	Research

In addition, each DVT is designed to address a specific *Common Core Language Arts Standard* and *Career and College Readiness Standards* for reading and writing about science as well as evaluating information in grades 6-8. This software toolkit is also appropriate for use with struggling

Differentiated Visual Tools™ for SCIENCE

learners placed in higher grades but whose developmental functioning is more equivalent to 6-8 grade levels, thus they are ideal for differentiating instruction based on the developmental needs of high and typical achieving students as well as those who are struggling learners.

These visual tools are particularly useful when addressing literacy standards that are especially challenging to teach because the DVTs enable teachers to SEE how the complex standards can be addressed in relatively simple ways. The embedded prompts on the DVTs cue students to engage in specific thinking processes designed to facilitate their performance.

The program includes ready-to-use Power Point slides with built-in animation features as well as interactive PDF files for each of the visual tools, plus samples of how teachers have used them. The program also includes mini-Power Point professional development presentations designed to explain the purpose and features of each visual tool.

The Interactive Science DVTs are designed for use with Macs or PCs and also work well with mobile devices, such as tablets, iPads, or smart phones. The digital DVTs may be emailed to students or parents and/or saved to students' electronic portfolios. They are also ideal for Smart Boards, Promethium Boards, or LCD projectors. The interactive blackline masters are designed for printing hardcopies.

The licensed user (teacher) may make and distribute copies of the Science DVTs to students for whom s/he is responsible for teaching, but the DVTs may not be shared with non-licensed teachers or students not on the licensed teacher's role. The software may be loaded on the licensed-teacher's classroom computers (with the exception of computer labs) and on the teacher's personal computer.

Sample menu page
(each topic has its own menu page)

science differentiated visual tools ™

Phenomenon | Procedures | Discovery | Life Forms | Structures & Systems | Theory | Experiments | Research | Evaluating Information | Writing

Key Ideas

Phenomenon Essentials
PPt Interactive PDF
Laws of Thermodynamics
DVT explanation

Phenomenon Relationships Web
PPt Interactive PDF
Diffusion
DVT explanation

Scroll down to view more

Phenomenon Sequences & Cycles

4-Step Sequence (simple)
PPt Interactive PDF
DNA Replication
DVT explanation

4 Phases + Details
PPt Interactive PDF
Mitosis
DVT explanation

7 Step Process
PPt Interactive PDF
Scientific Method
DVT explanation

Steps Analysis
PPt Interactive PDF
Mitosis cell division
DVT explanation

2-Step Cycle
PPt Interactive PDF
Energy Cycle in Natural World
DVT explanation

3-Step Cycle
PPt Interactive PDF
Cell Division
DVT eplanation

4-Step Cycle
PPt Interactive PDF
DNA Replication
DVT explanation

Phenomena Comparisons

Phenomenon Comparisons X 2
PPt Interactive PDF
Mitosis vs. Meiosi
DVT explanation

Phenomenon Comparisons X 3
PPt Interactive PDF
DNA Replication vs. Transcription vs. Translation
DVT explanation

Phenomenon Cause / Effect Relationships

Chain Reaction
PPt Interactive PDF
Energy Capture & Transfer
DVT explanation

Phenomenon Affects
PPt Interactive PDF
Ecosystem Climate
DVT explanation

Cause/Effect Sequence
PPt Interactive PDF
Electromagnetic Waves
DVT explanation

Illustrations of how DVTs are designed to address specific Core Standards

CCSS.ELA-LITERACY.RST.6-8.2 Determine the central ideas or conclusions of a text; provide an accurate summary of the text distinct from prior knowledge or opinions.

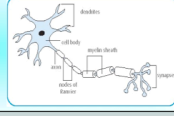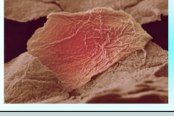*Phenomenon Essentials* Interactive PDF

Sample of how the DVT was used

CCSS.ELA-LITERACY.RST.6-8.9 Compare and contrast the information gained from experiments, simulations, video, or multimedia sources.

Structures & Systems Comparison DVT PPt slide

Sample of how the DVT was used