

DIVERSIFIED MATERIALS

**Differentiation Strategies
for High-End Learners:
A Response to Instruction
For Elementary Teachers**

Pre-Assessment

What are Diversified Materials?



Pre-Assessment

- Have you ever used diversified materials?
 - A. Yes
 - B. No
 - C. Maybe
 - D. Not Sure

Pre-Assessment

- What are examples of diversified materials??

Diversified Materials-Advantages

❖ Meet special needs of gifted students:

❖ Accelerated pacing

❖ Depth

❖ Complexity

❖ Adds rigor to learning

❖ Challenges gifted students

❖ You are not alone!

❖ Gifted Specialists,

❖ Media specialist

❖ Curriculum supervisors

❖ Middle-High School Teachers

Diversified Materials-Non-Negotiables

✧ Textbook is only a tool!

✧ Use Primary Source Documents when possible

✧ May need to meet in small group to teach how to use resources-

✧ Gifted Specialist

✧ Media Specialist

✧ Another classroom teacher

✧ Resource teachers

✧ Curriculum Coaches

Diversified Materials-Primary Source

❖ Various forms-

❖ Text- speeches, manuscripts, journals, diaries, documents, contracts, newspapers

❖ Audio & Video- audio tapes or digital (or vinyl), movies, podcasts, newsreels

❖ Images-Photos, pictures, sketches, artwork, maps, posters,

❖ Data-charts and graphs, census records, clothing, toys, artifacts, buildings

Diversified Materials – General

✧ <http://www.learner.org/#>

✧ <http://www.wolframalpha.com/>

✧ <http://www.google.com/squared>

✧ <http://www.whatshouldireadnext.com/>

✧ <http://www.openculture.com/freemoviesonline>

✧ <http://www.openculture.com/freeaudiobooks>

✧ TED- <http://www.ted.com/>

✧ <http://www.tenbyten.org/10x10.html>

✧ <http://theweekinrap.com/>



Diversified Materials-Science

Diversified Materials-Science

✧ <http://www.thefutureschannel.com>

✧ <http://www.ptable.com/>

✧ <http://www.google.com/sky/>

✧ <http://www.stormpulse.com/>

✧ <http://sciyo.com/>

✧ <http://sciencebooksonline.info/>



Diversified Materials-Math

Diversified Materials-Math

✧ <http://www.thefutureschannel.com>

✧ <http://math.harvard.edu/~knill/mathmovies/index.html>

✧ <http://www.rpi.edu/~eglash/csdt.html>

✧ <http://www.wowmath.org/>

✧ <http://numbernut.com/>



Diversified Materials-Social Studies

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✧ <http://www.wwnorton.com/college/history/america8/full/historytours.aspx>

✧ <http://www.worldmapper.org/>

✧ <http://nieonline.com/aaec/cftc.cfm>

✧ <http://www.besthistorysites.net/index.shtml>

✧ <http://cyberschoolbus.un.org/>

✧ <http://www.americanrhetoric.com/>



Diversified Materials – Language Arts

Diversified Materials – Language Arts

- ☆ <http://googlelittrips.org/>
- ☆ <http://www.planetebook.com/>
- ☆ <http://www.readprint.com/>

Diversified Materials – Free Books

General-

Books, documents, lecture notes -<http://www.e-booksdirectory.com/>

Search engine-<http://www.archive.org/bookserver>

Free Books and magazines- <http://books.google.com/>

<http://gooreader.com/>

News- <http://html5.labs.ap.org/>

Free Audio- <http://www.thoughtaudio.com/>

Free Audio Search Engine:

<http://www.booksshouldbefree.com/AudioOwl>

<http://librivox.org/>

http://www.openculture.com/free_textbooks

<http://www.loudlit.org>

<http://www.eoearth.org/>

Diversified Materials – Online Courses

a. MIT Open Courseware – Massachusetts institute of Technology

<http://ocw.mit.edu/OcwWeb/web/courses/courses/index.htm#BrainandCognitiveSciences>

Over 1800 free courses online- lectures in all areas. Some courses may be difficult for students without feedback, lab materials or literature books. Some books may be checked out from a library but who in the system will provide feedback? Topics may not be appropriate for students or approved by parents. May want written permission for specific topics of study.

b. Free online MIT High school Courses

<http://ocw.mit.edu/OcwWeb/hs/home/home/index.htm>

c. Education Portal

<http://education-portal.com/articles/Universities with the Best Free Online Courses.html>

Many universities form around the world with free online courses.

Diversified Materials – Online Courses

d. Free Online Courses: 250 Free Courses from Top Universities

<http://www.openculture.com/2007/07/freeonlinecourses.html>

Many, many course topics.

e. 250 courses to Learn Anything

<http://oedb.org/library/beginning-online-learning/200-free-online-classes-to-learn-anything>

Many appropriate and inappropriate courses for middle and high school, as well as college.

f. Free Ed-net

www.free-ed.net/

Has many lectures from college courses but not the coursework.

Diversified Materials- Citizen Scientists

Bee Scientists- <http://www.greatsunflower.org/>

Butterflies of Alabama- <http://www.thebutterflysite.com/alabama-butterflies.shtml>

Cornell Lab of Ornithology (Nine different projects)-

<http://www.birds.cornell.edu/netcommunity/page.aspx?pid=1664>

FireFly Watch- https://www.mos.org/fireflywatch/about_firefly_watch

FrogWatch USA- <http://www.aza.org/frogwatch/>

Galaxy Zoo- Classifying galaxies for NASA!-

http://www.galaxyzoo.org/how_to_take_part

Journey North- <http://www.learner.org/jnorth/>

Life Desk (need permission for organization) - <http://www.lifedesks.org/>

Mars Student Imaging Project- <http://msip.asu.edu/>

Monarch Watch - <http://www.monarchwatch.org/>

Project BudBurst- <http://www.budburst.ucar.edu/index.php>

SETI- <http://setiathome.berkeley.edu/index.php>

Spring Wildlife Watch - <http://www.nwf.org/WildlifeWatch/Home.aspx>

StarChild (star count)-

http://www.windows2universe.org/citizen_science/starcount/

Star Dust @Home- <http://stardustathome.ssl.berkeley.edu/classroom.php>

Diversified Materials

- Upload your lesson plan to the Moodle Class website.
 - Secondary: <http://atim.cc/course/view.php?id=383>
- Teach the lesson
- Follow-Up:
 - Webinar to discuss the effectiveness of the lesson and how to continue improvement **Date: December 1, 2010**
 - WIKI to write a minimum of four paragraphs reflecting on the effectiveness of the lesson and how to continue improvement. In addition, post feedback to two other teacher postings.