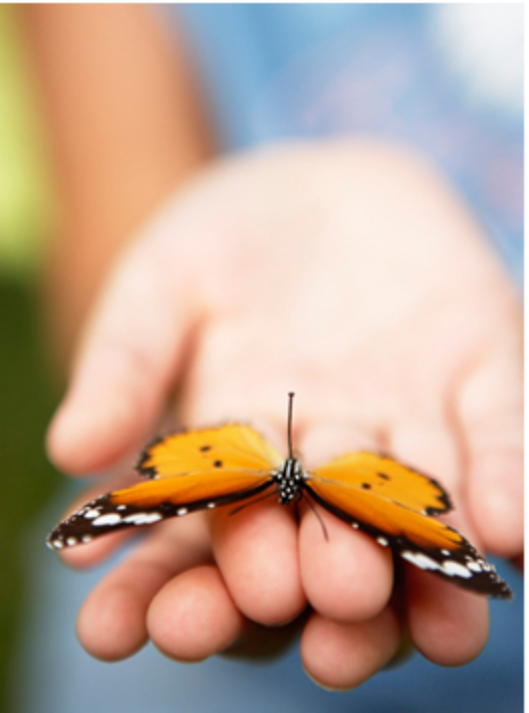


Discovery EDUCATION™

TX State Board of Education

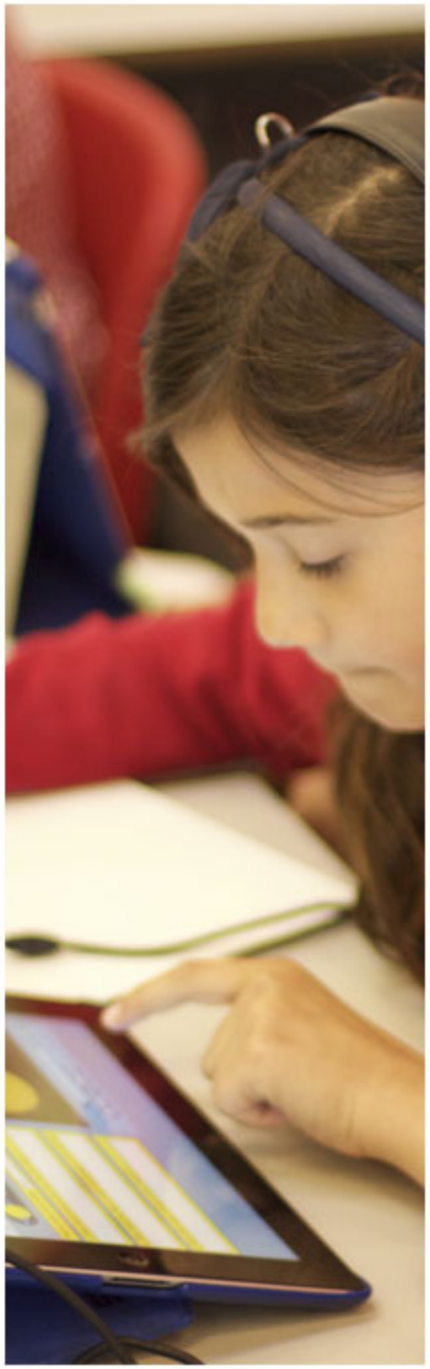
November 17, 2015

Scott Kinney, Senior Vice President

Transforming Teaching & Learning

Emerging Trends

Our students, educators and school systems are beginning an unprecedented transition towards digital learning …

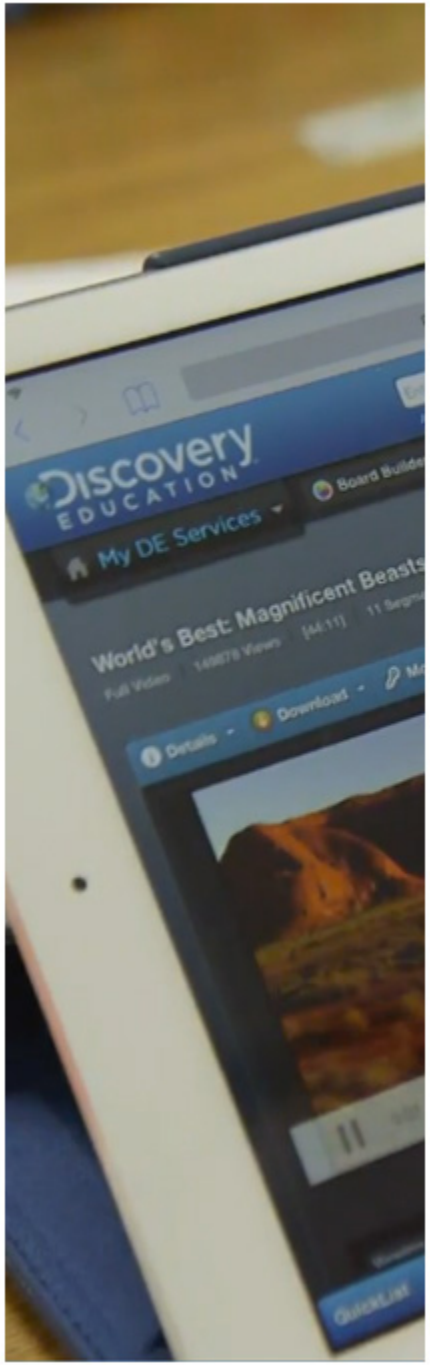


Our Schools Connectivity

Futuresource Consulting Ltd reports:

By the 2015-2016 school year, mobile devices will be available for 1-to-1 computing for **half** of the US K-12 student and teacher population.

Source: Molnar, M. (2015, February 24). Half of K-12 Students to Have Access to 1-to-1 Computing by 2015-16. Retrieved March 2, 2015, from http://blogs.edweek.org/edweek/marketplacek12/2015/02/half_of_k-12_students_to_have_access_to_1-to-1_computing_by_2015-16_1.html



Our Schools Connectivity

According to a survey conducted by CoSN, AASA and MDR:

"Two years ago, **43%** of high schools were described as not having wireless connectivity

…today just **1%** of respondents reported their high school did not have wireless."

Source: Herold, B. (2015, November 4). Fast, affordable internet remains challenge for many school, survey finds. Retrieved November 5, 2015, from http://blogs.edweek.org/edweek/DigitalEducation/2015/11/school_internet_Erate_survey_CoSN.html

Teachers & Content

Education Market Research/Simba reports:

"Teachers now are using more digital instructional materials than print materials in the classroom."

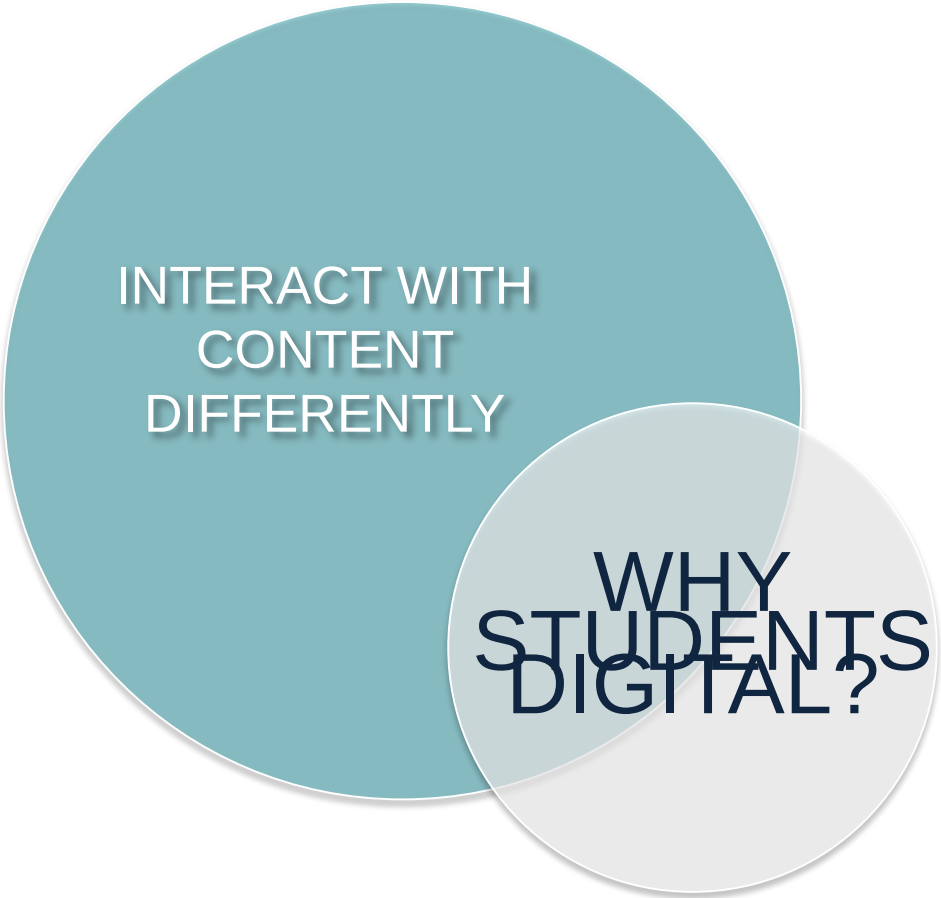
Source: Fine, A. (2015, March 4). Digital instructional materials outpace print in the classroom. Retrieved March 4, 2015, from http://www.districtadministration.com/news/digital-instructional-materials-outpace-print-classroom

Assessment

A research brief released by EdTech Strategies, LLC recently reported:

"The 2015-2016 school year will mark the first time that the **majority** of state mandated summative testing in US elementary/middle schools will be **administered via technology and not in a paper and pencil format**."

Source: EdTech Strategies. (2015, November 5). Pencils down: The shift to online & computer-based testing. Retrieved November 5, 2015, from http://www.edtechstrategies.com/research-and-writing/usk-8-testing.


INTERACT WITH CONTENT DIFFERENTLY
WHY STUDENTS DIGITAL?

Students & Content

According to Common Sense Media, teens (13-18) today spend an average of

9 hours a day with media

- Over 2 ½ hours a day watching TV
- Almost 2 hours listening to music
- Over an hour gaming

Source: Sabestian. (Producer). (2009). Joe's non-netbook [Web]. Retrieved from http://www.youtube.com/watch?v=SkhpmEZWuRQ

This does NOT include time spent at school or time spent doing homework

Source: The Common Sense Census: Media use by tweens and teens. (2015, November 4). Retrieved November 5, 2015.

Students & Content

Nearly 1 in 5 children ages 2-5 in the US, Canada, Japan, Australia, New Zealand, Czech Republic, France, Spain, Italy, Germany and the UK can use a smartphone application.

Less than 1 in 10...

can tie their shoes.

Source: ProCon.org. (n.d.). Tablets vs. textbooks. Retrieved from http://tablets-textbooks.procon.org

Texas Essential Knowledge and Skills for English Language Arts and Reading

The TEKS for ELA mentions “technology” and “media”…

over 140 times!

Digital Literacy

In today's world, you need broadband to find a job, apply for a job, and you need digital skills to keep most of today's jobs...

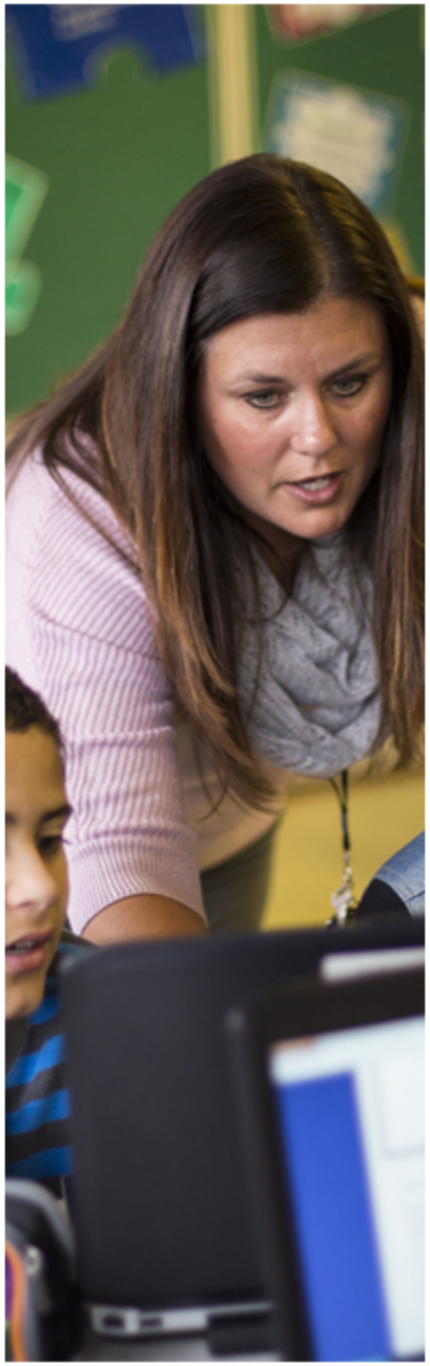
Almost all Fortune 500 companies post job openings exclusively online.

And almost all require online job applications – from Wal-Mart and Target, to many small businesses.

FORMER FCC CHAIRMAN JULIUS GENACHOWSKI

Source: GENACHOWSKI, J. (2012, September). Comcast internet essentials event.

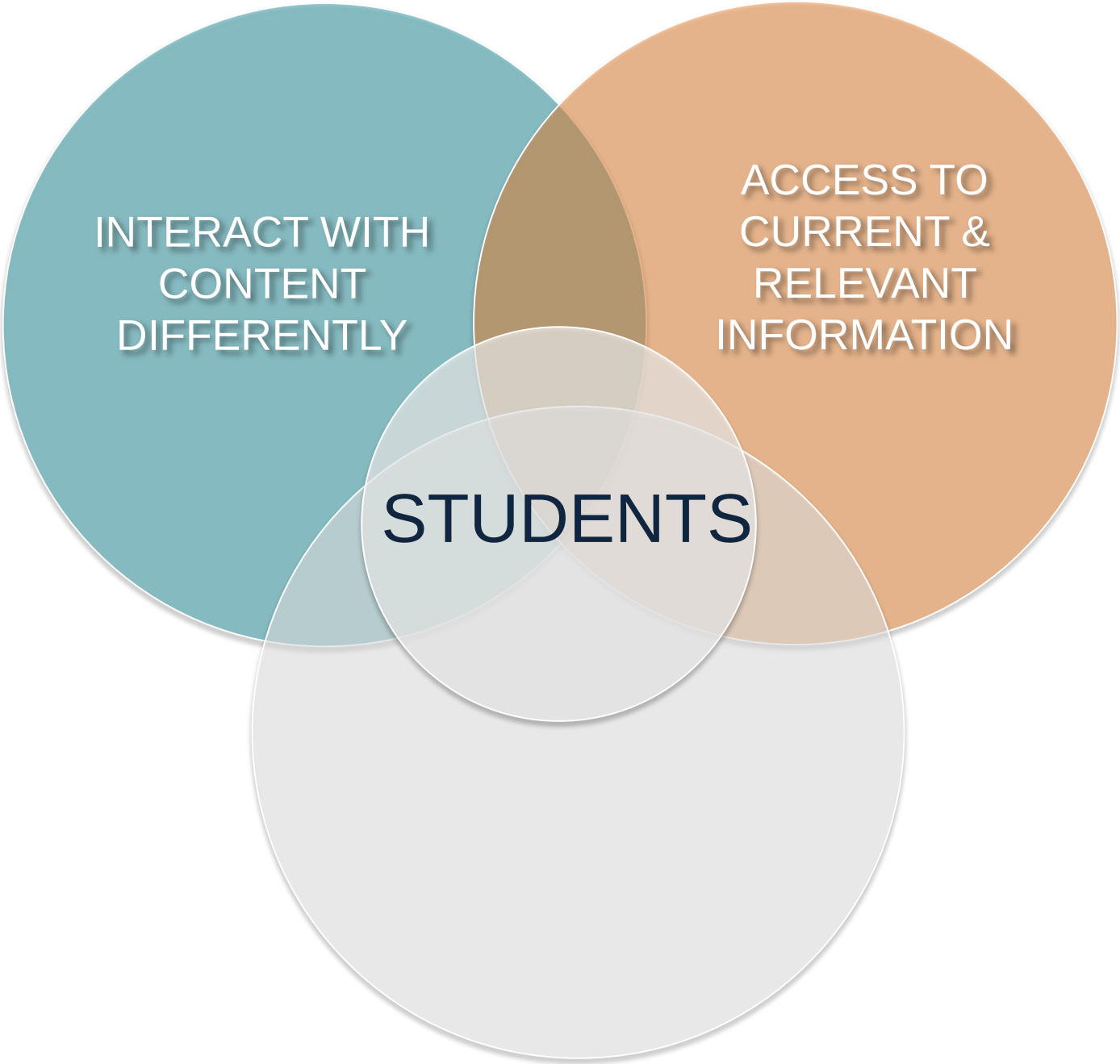
Source: Rane, G. (2015, January 15). Here is why social skills and digital literacy are 'must-have' skills for new age employees. . Retrieved June 5, 2015, from http://www.dnaindia.com/academy/report-here-is-why-social-skills-and-digital-literacy-are-must-have-skills-for-new-age-employees-1951028



Digital Literacy

According to a recent Global Work Monitor Survey conducted by Randstad, **social skills and digital literacy** have become the top “must-haves” for employees.

Source: Rane, G. (2015, January 15). Here is why social skills and digital literacy are 'must-have' skills for new age employees. . Retrieved June 5, 2015, from http://www.dnaindia.com/academy/report-here-is-why-social-skills-and-digital-literacy-are-must-have-skills-for-new-age-employees-1951028

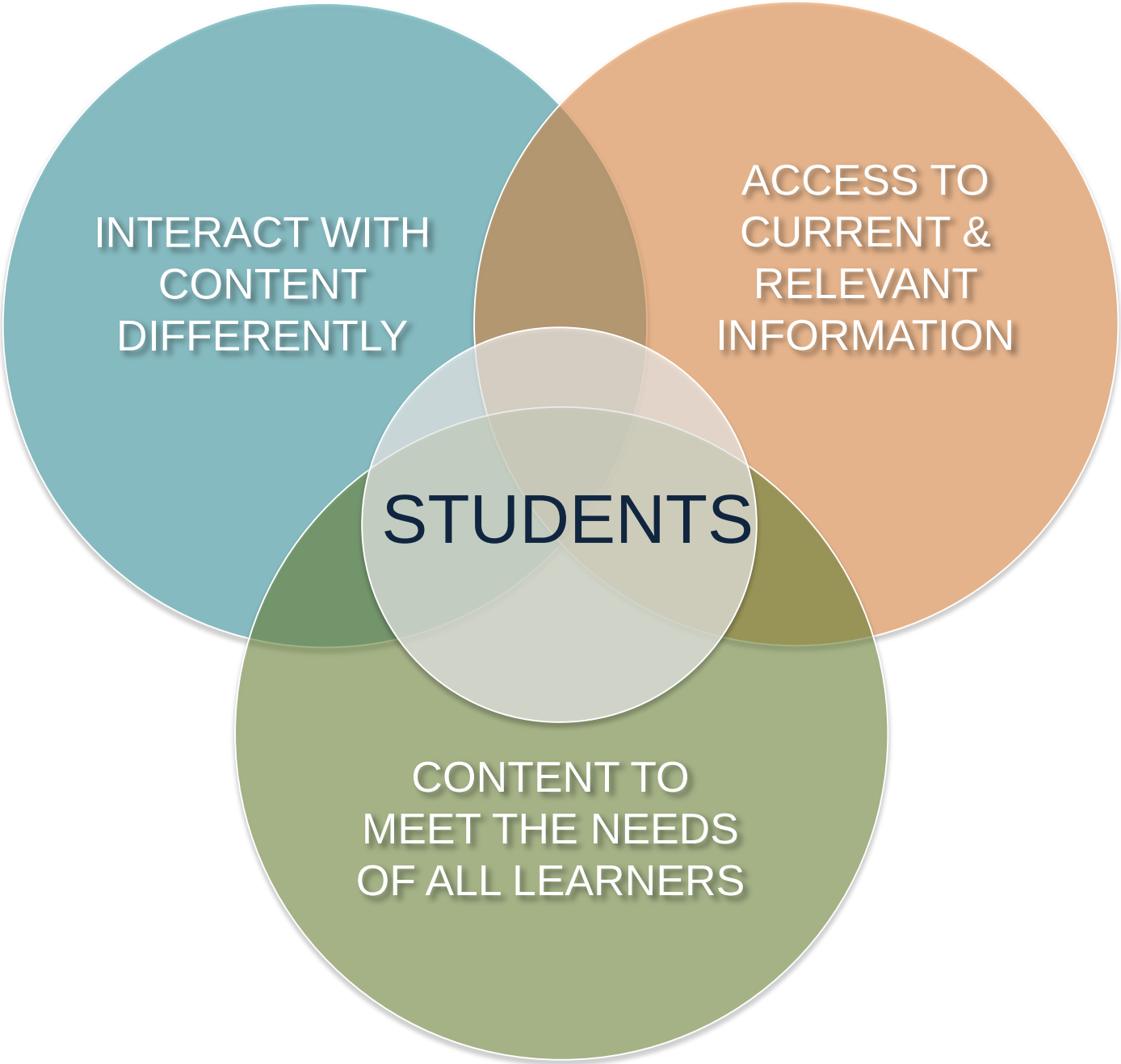

INTERACT WITH CONTENT DIFFERENTLY
ACCESS TO CURRENT & RELEVANT INFORMATION
STUDENTS

Current & Relevant

My 8-Year Old Textbook Still Thinks…

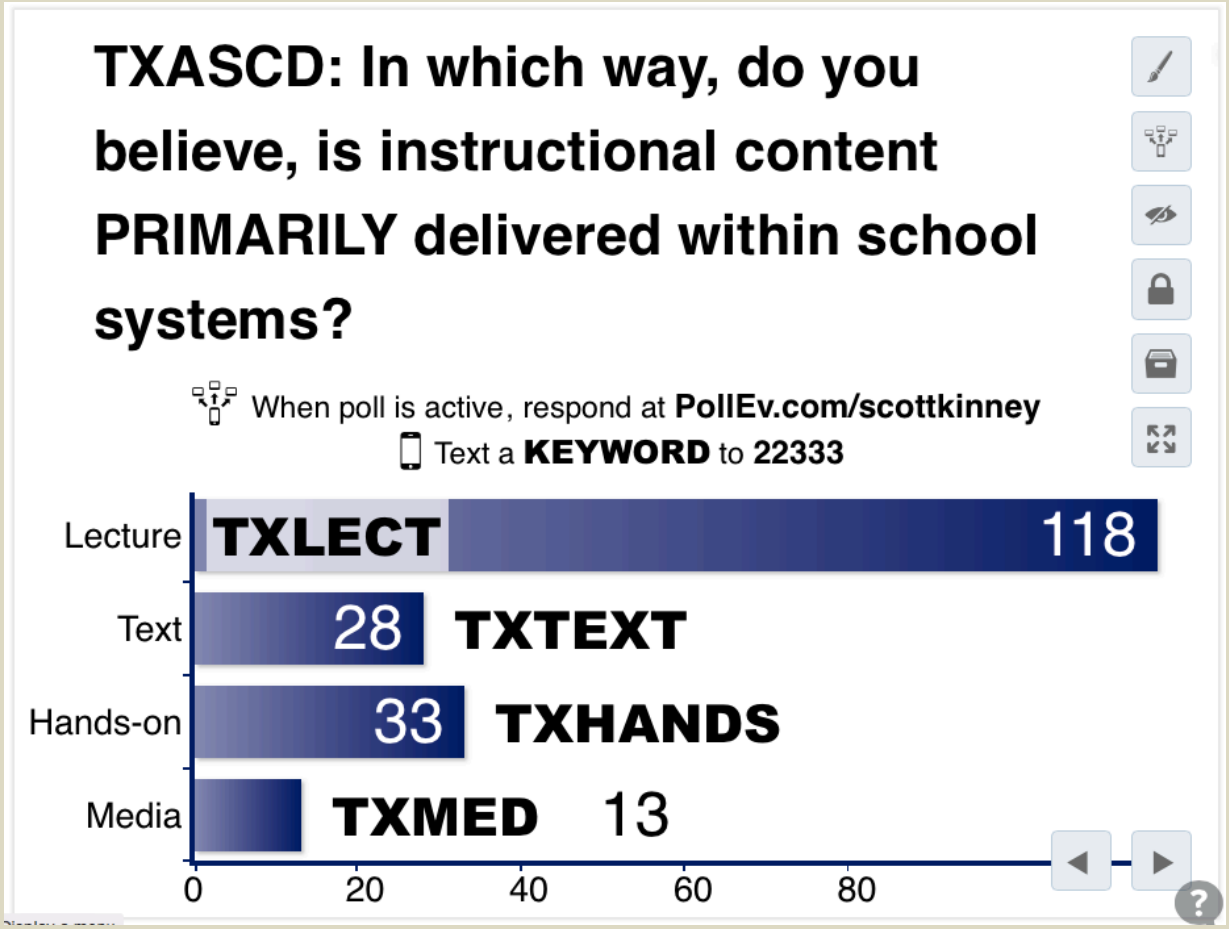
…George W. Bush is the president of the United States (January 2009)

Source:
The Solar System and Beyond
"Characteristics of a Planet"


INTERACT WITH CONTENT DIFFERENTLY
ACCESS TO CURRENT & RELEVANT INFORMATION
STUDENTS
CONTENT TO MEET THE NEEDS OF ALL LEARNERS

Please take a moment to answer the following question…

…and yes, standard text messaging rates apply.



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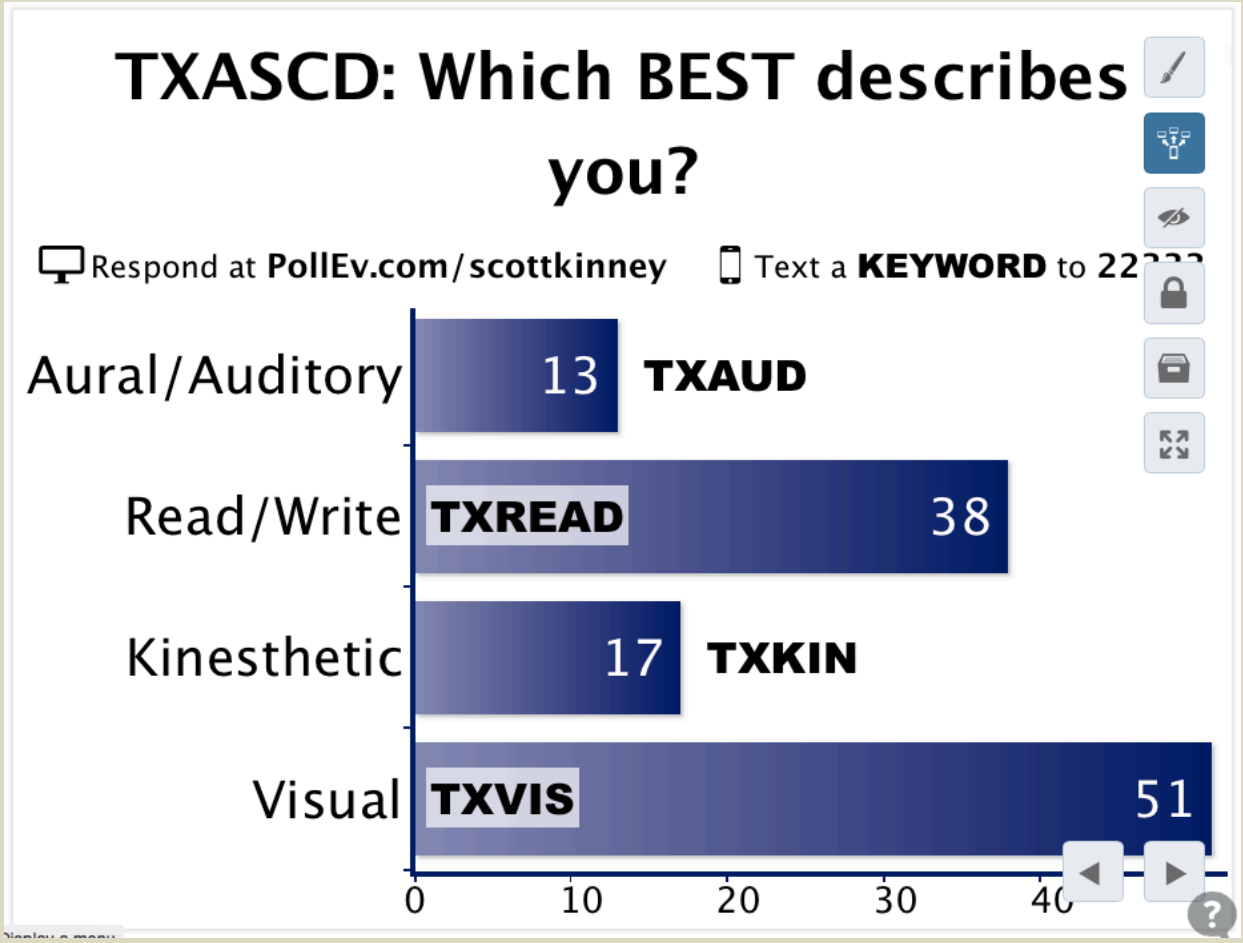
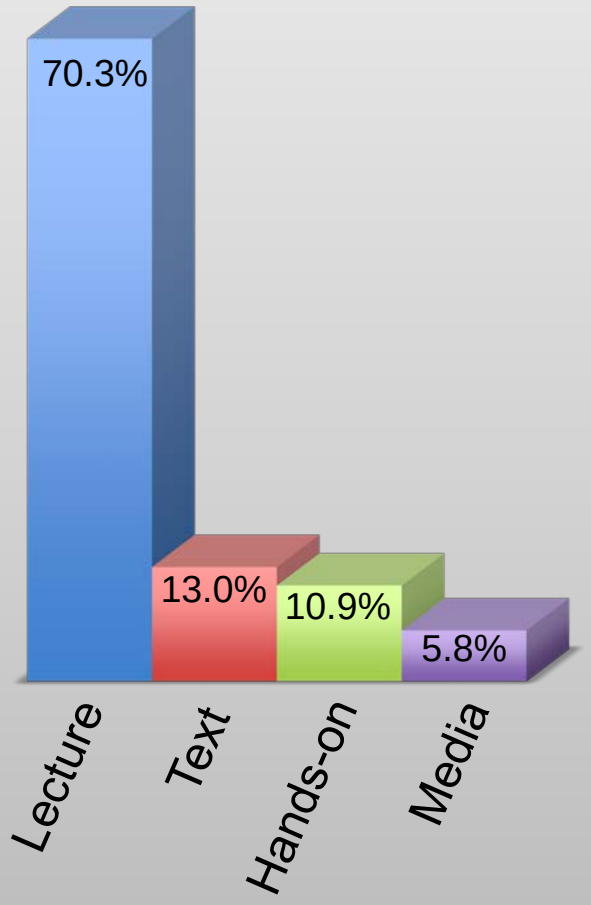
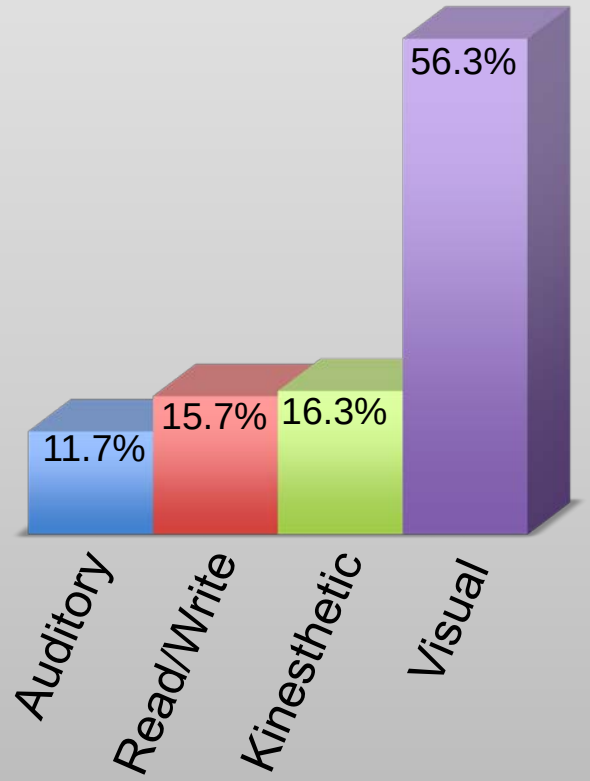


Deliver Content

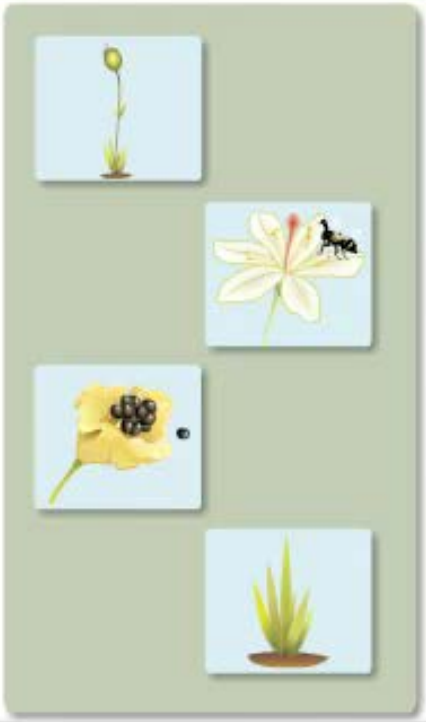


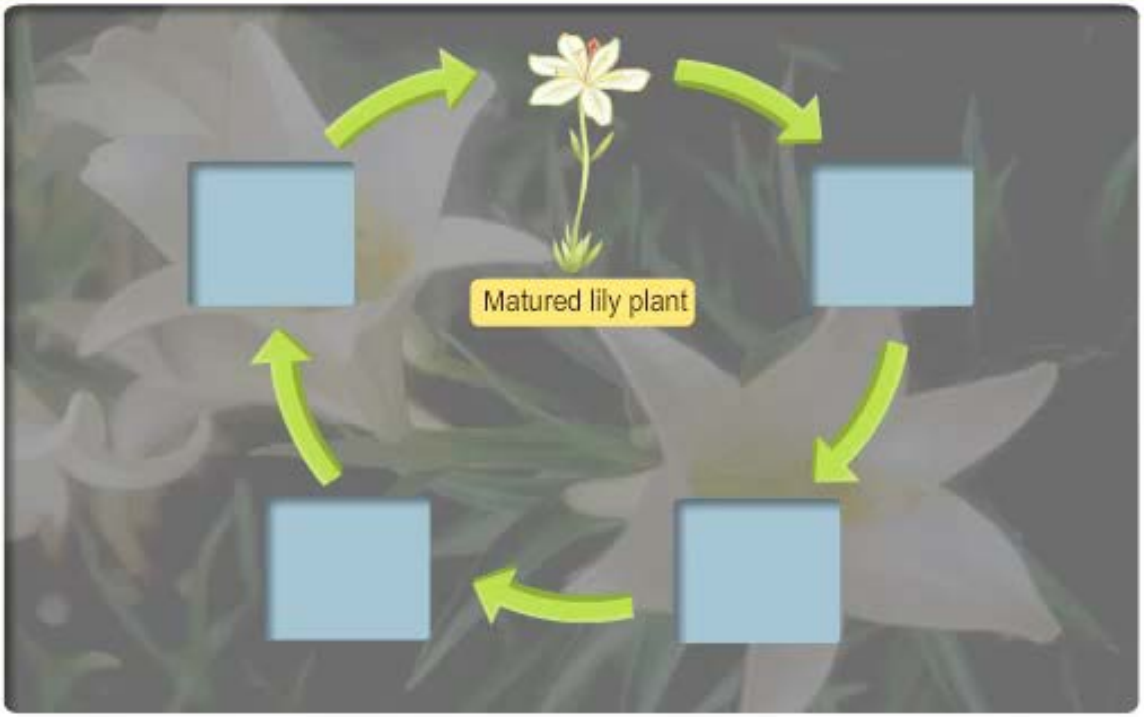
How We Learn



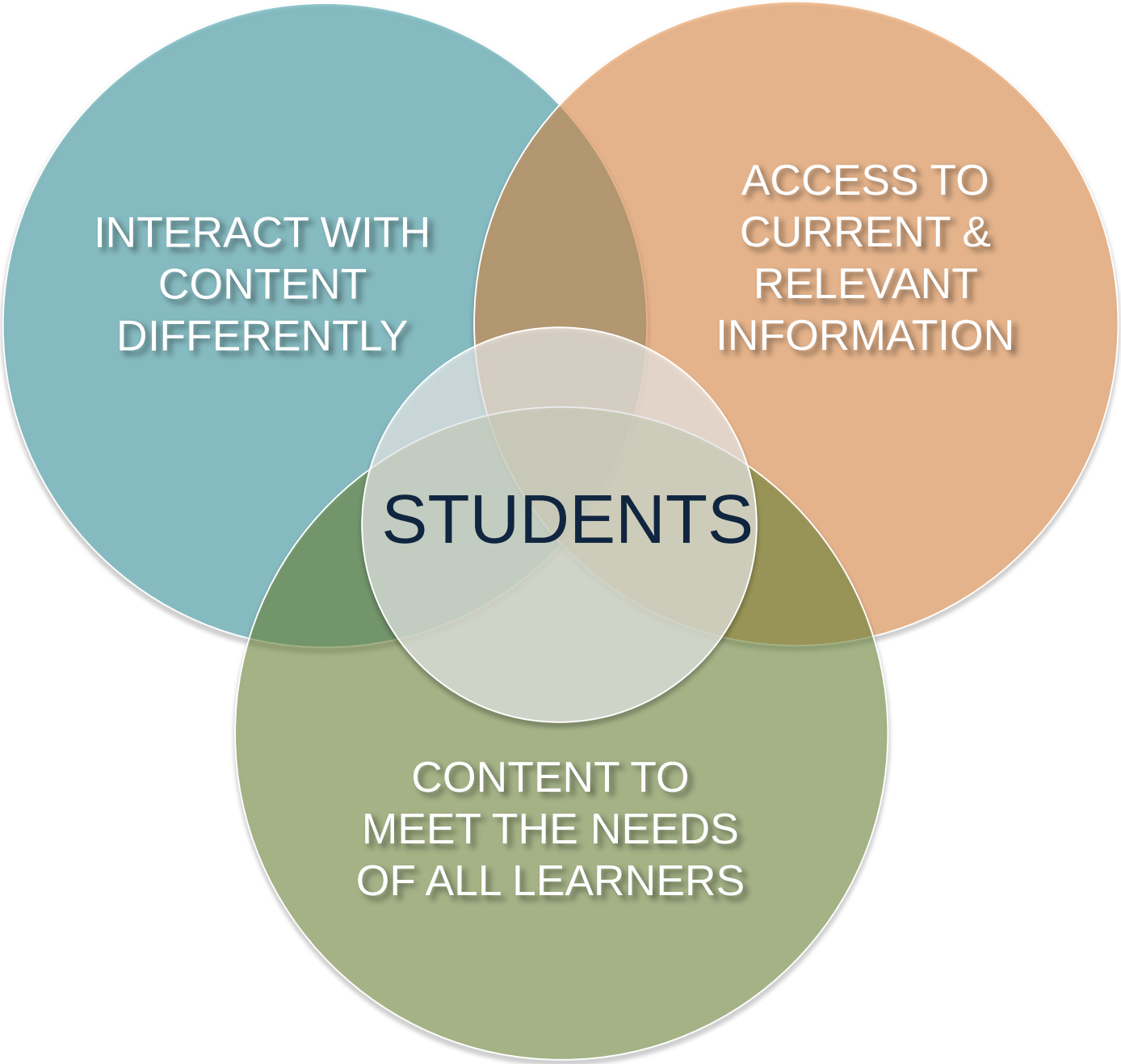
Life Cycles

A lily is a flowering plant. Drag and drop the pictures correctly to complete the life cycle of the lily.





Discovery EDUCATION SCIENCE


INTERACT WITH CONTENT DIFFERENTLY
ACCESS TO CURRENT & RELEVANT INFORMATION
STUDENTS
CONTENT TO MEET THE NEEDS OF ALL LEARNERS

Questions Educators Should Ask Their Digital Partner

- Is it digital by design, or have you simply converted a static print textbook to digital?
- How do you intend to support educators in making this transition?
- Do you update your materials regularly?
- Is it less expensive than traditional options?