LEAP: Adaptive technology in the Classroom
Improving Learning Experiences: Student Attitudes Towards the Use of Technology

To view the complete report: visit www.Brightspace.com/UK/NUS
LEARNING STYLES

Passive vs. Active Learning

Average Retention Rate (% students recall after 24 hours)

- Reading: 10%
- Audio-visual: 20%
- Demonstration: 30%
- Lecture: 5%
- Discussion groups: 50%
- Practice by doing: 75%
- Teaching others: 90%

Big Data in Education

- Meaningful Insight
  - Students
  - Instructors
  - Programs
  - Institution

- Real-time Data
  - Dashboards
  - Statistical Analysis
  - Machine Learning
  - Data Modeling
  - Data Mining

- Transforming Education
  - Grades
  - Outcomes
  - Evidence
  - Life-long Learning

- Personalized Learning
The Current State:

- Yearly? At the end of a course?
  - Evaluate
  - Design
  - Test
  - Deliver
Proposed...

Data related to a student’s experiences can allow for immediate adjustment and personalization of the learning experience for students.
LeaP Adaptive Engine

What is adaptive learning?

• cognitive and prescriptive business intelligence practices
• recommends, but also suggests alternate paths
• learns from the user

LeaP recommends content for students to help them master a topic.
What is LeaP?

- Content
- Questions
- Objectives
- Learning Path
- Personalized Learning
Personalize the learning experience

Adaptive technology tool that personalizes learning – by personalizing your learning content

Allows educators to place the learner at the center of their own learning experience
Continually adapting learning paths allow learners to challenge their knowledge development at any point along the learning journey.
Additional Resources

Chapter 1: Ecosystems

Learning Path
- Aquatic ecosystem / Biologic characteristics
- Biome / Other biomes
- Biome / Other biomes / Map of biomes
- Biome
- Herbivore / Predator-prey theory (herbivore-plant interactions)
- Bacteria
- Food Chains, Webs and Pyramids
- Trophic level / Overview
- Bacteria / Interactions with other organisms
- Host (biology)

Biome / Other biomes / Map of biomes

Recommended Reading
- Biome / Biome classification schemes...
- Video: Purple Loosestrife: A Eurasian...
- Biome
Thank you!

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