Pathway 2 Success
Using Adaptive Learning

Presenters: Cindy Cash and Dan Jones

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Agenda

- Define Adaptive Learning
- Development of Time Management Module
  - Creating Partnerships
  - Survey Results
- Immersive Learning Course to further build content
- What's Next?

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How Do You Define Adaptive Learning?
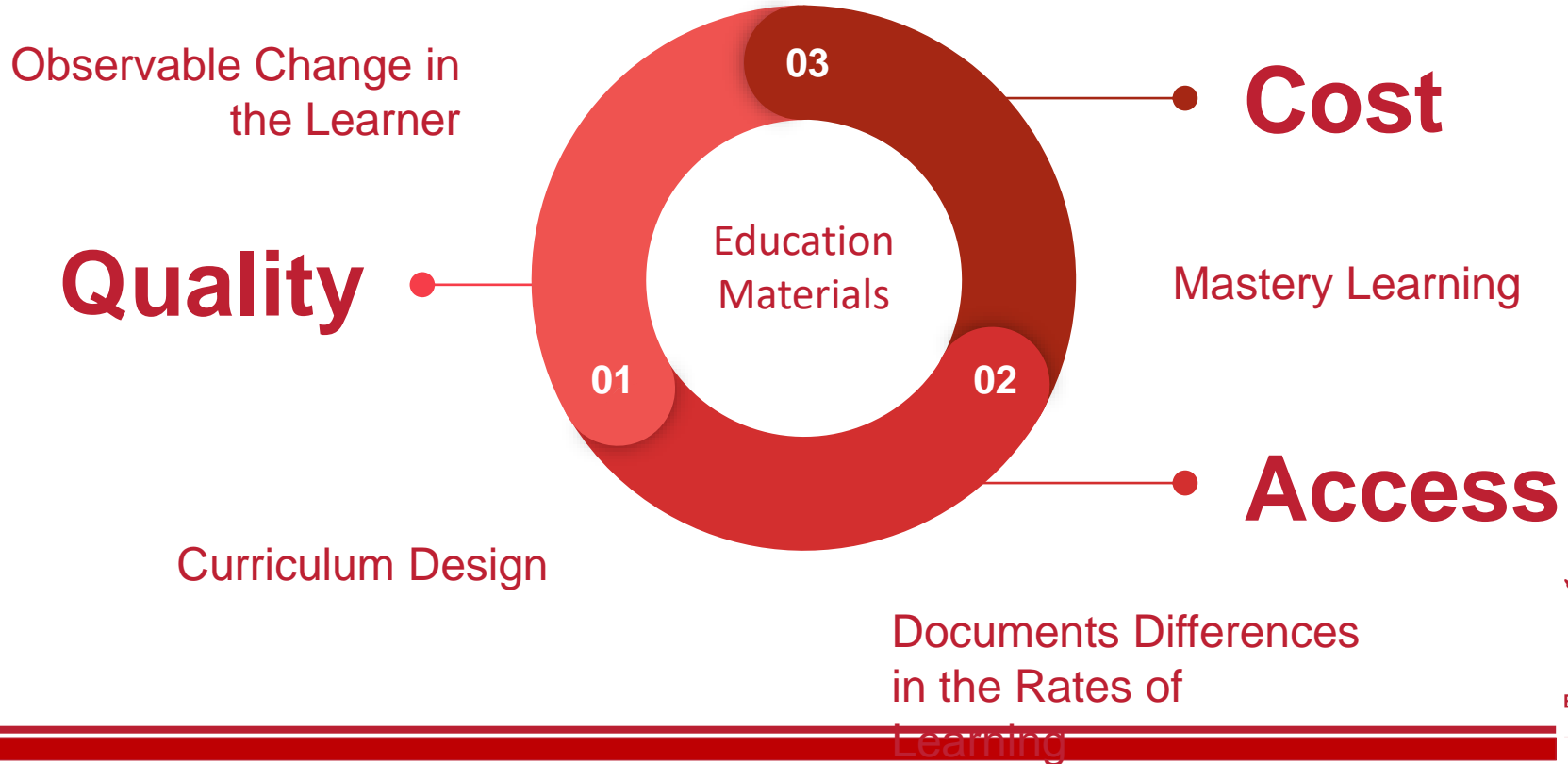
- Use poll everywhere

Adaptive Learning Definition

Leverages computer technology to create a personalized learning module that interacts with learners and in turn allows them to determine the sequencing of instruction as they travel down efficient, effective, and customized learning paths

(Murray & Perez, 2015; Moskal, Carter, & Johnson, 2017).

Why Adaptive Learning?

Observable Change in the Learner

Quality

Curriculum Design

03

Education Materials

01

02

Cost

Mastery Learning

Access

Documents Differences in the Rates of Learning

Time Management

- Critical college readiness skill
- Doesn't have right or wrong answers
- Increase awareness of services on campus

Establishing Partnerships

- Smart Sparrow

- Ball State University
  - The Learning Center
  - Teacher's College
  - Counseling Center

- The Indiana Academy

THE
INDIANA
ACADEMY
FOR SCIENCE,
MATHEMATICS,
AND HUMANITIES

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Deciding on the Content

Workshops with Smart Sparrow

Survey Indiana Academy Students

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Survey to Establish Focus

- Surveyed Indiana Academy Students
  - Incoming High School Juniors
  - Academy is part of Ball State University
- Findings Helped Determine Topics

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Survey Findings

Students Need Help With:

- Setting Small Goals
- Creating a Study Plan
- Actually Studying
- Reducing Anxiety

Students DO NOT Need Help With:

- Completing Things on Time
- Asking for Help
- Prioritizing Tasks
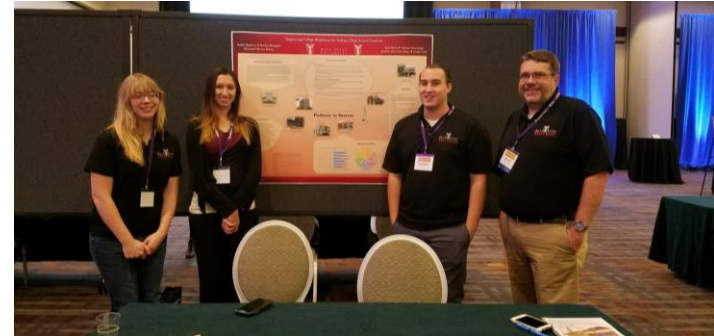- Knowing What To Study

Results of First Test

- 150 students from the Indiana Academy tested the first iteration

- What did we find and where are we now…

Immersive Learning Course

- Class with 5 students
  - Two Freshmen
  - Two Juniors
  - One Senior
- Revised Idea of What Needs to be in Module
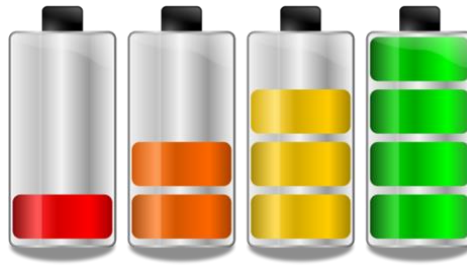

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Image: Charged Up

Welcome to the Charged for Success Challenge

The goal? To increase the charge on your personal device by completing the four phases of the challenge:

1. Identify what's important to you and a few goals for this semester.

2. Help Charlie Cardinal create a calendar of activities.

3. Develop your personal calendar with important stuff to boost the charge on the battery.

4. Then complete the challenge by matching your calendar with your goals.

Are you ready for the Challenge? ***Insert a response box here*** Ok – Charge On!

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Hey #STUDENTNAME Nice to meet you!
Let's get started by selecting a device that best describes you

Image: Cardinal 07

Possible Feedback: It's normal to feel a little nervous when you start something new.

I'm nervous about starting school, but "think I've got this".

Image: Profile01

I'm excited and nervous about fitting in with culture on campus.

Possible Feedback: It's normal to feel a little nervous when you start something new. There are tons of great clubs on campus to help get you involved.

Image: Profile02

Possible Feedback: That's awesome! The Learning Resource Center is here to help!

I'm dedicated to my team, but I need the grades to play.

Image: Profile03

Possible Feedback: That's great. Keep in mind that there are tons of people on campus here to help you succeed-you don't have to do it alone!

I want to better myself and do whatever it takes to graduate

Image: Profile04

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Looks like you are an Early Bird.
How do you stay charged up during the day with a busy schedule?

Select M/C items

- ❑ I keep my work with me so when I'm waiting on the bus or at an appointment can keep on charging
- ❑ I'm not afraid to say "no" when have other things need to be done first like homework or going class
- ❑ I try not to get sidetrack with things and not put things off
- ❑ I take a nap during the afternoon which keeps me charged up

Adaptivity

CORRECT STATE(S):

- Rule: Pick any choice
- Condition:
- Feedback:
- Action:
- Proceed to screen:

ERROR STATE(S):

- Rule:
- Condition: Choice 1
- Feedback: Great!
- Action:
- Proceed to screen: N/A

- Rule: choice 2
- Condition: multiple choice question has no response
- Feedback: Hey, can you answer the question please? :)
- Action:
- Proceed to screen: N/A

- Rule:
- Condition:
- Feedback:
- Action:
- Proceed to screen:
https://bigfuture.collegeboard.org/get-started/inside-the-classroom/8-ways-to-take-control-of-your-time

Charlie says...

Volunteering and career development is important to me (reference images). Looks like I've got open time slots. Is there anything you think I've missed? (add study time blocks to drag in or other blocks and change wording of "downtime" to include the slider choices. Notice I couldn't get the sleep hours to show up correctly but maybe it says that Charlie is an early bird.

Feedback: include only a couple of items to fill the slots then a couple areas could have pop ups when they hover over about did you think about travel time – or regular sleep pattern is good – too much downtime

Lessons Learned

- Learning Smart Sparrow
- Limitations of graphic design abilities
- Coming up with a theme for the module: "Charged Up"
- The "Charged Up" theme was seen as for kids by the Immersive Learning students

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What Is Next?

- Theme will be a pathway through the university, possibly similar to a board game
  - Give incoming students a sense of campus
  - Allow for other modules beyond time management to be included in the pathways
- We will have students do a self-assessment at the beginning of the module

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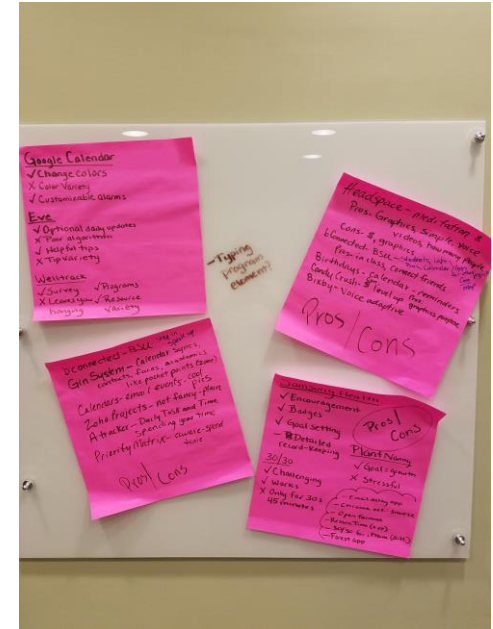
How Can You Leverage Adaptive Learning?

- Learning Management System

- Badges

- Storyline

- What is your purpose?
  - Collect Data
  - Alternative Learning Process