The Role of Analytics in Lumen Waymaker

David Wiley, Lumen Learning
Linda Williams, Tidewater Community College
Guiding Principles

Timely access to actionable information can help instructors and students be more effective.

Neither instructors nor students are:
- data scientists
- learning scientists
- instructional designers
- behavioral economists
“Prose Not Graphs”
Guiding Principles

• When adaptive systems make choices on behalf of students or instructors, their ability to make effective choices atrophies.

• We should be actively supporting the development of metacognition and other learning to learn skills rather than eroding them.
“Reflect with Data”
Analytics-Enabled Product Features

• Teacher Tools help faculty build more helpful, more rewarding relationships with students

• Study Plan helps students actively manage their own learning and attain mastery
Teacher Tools
# Recommendations

## Help students who are trying but struggling

No students currently meet the criteria for this recommendation.

[Take Action >>](#)

## Nudge students who are not engaging

No students currently meet the criteria for this recommendation.

[Take Action >>](#)

## Student Histories and Automated Message Log

- View individual student histories
- View automated messages sent

[Take Action >>](#)
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Help 5 students reach the mastery threshold on their second quiz attempt. They fell short of mastery on their first attempt despite having used formative assessments

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<th>Actions</th>
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<tbody>
<tr>
<td>Lisa Matts missed questions on 1 Outcomes [+ Expand]</td>
<td>95%</td>
<td>MESSAGE</td>
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<tr>
<td>Jonny Tidbits missed questions on 5 Outcomes [+ Expand]</td>
<td>73%</td>
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</tr>
<tr>
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<td>75%</td>
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<td>54%</td>
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<td>Learno Impacto missed questions on 2 Outcomes [- Collapse]</td>
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Demonstrate the importance of teamwork and effective communication in a business environment

- Differentiate between a group and a team, the characteristics of a team, and why organizations use teams (0 / 2 questions correct)
- Identify the stages of team development and the characteristics of each stage (1 / 2 questions correct)
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Identify the stages of team development and the characteristics of each stage (1 / 2 questions correct)
Jonny,
It appears that you are struggling with some of the topics we’re covering in class. Specifically, it looks like you’re having trouble in the following areas:

- Identify the stages of team development and the characteristics of each stage
- Identify factors that contribute to team success

Would you be able to meet with me tomorrow after class to talk about these?

- Professor Rob
Let's get going!

This message is sent to students who have not attempted a quiz in 7 days.

Subject:
Checking In

Message:

[FIRST NAME],

A little over a week has past since you took your last quiz. I hope things have been going well for you since then. Are you planning on taking another quiz soon? Taking a quiz each week will help you stay on schedule and keep you progressing through the course. Please contact me if there is anything I can do to help you succeed on your next quiz.

Fields like [FIRST NAME] will be personalized automatically. Take care not to modify these.

Message Preview:

Agamemnon,

A little over a week has past since you took your last quiz. I hope things have been going well for you since then. Are you planning on taking another quiz soon? Taking a quiz each week will help you stay on schedule and keep you progressing through the course. Please contact me if there is anything I can do to help you succeed on your next quiz.

Dr. Curtis

Proofread your message here, noting how it looks with sample student info and your signature.
Nice work!

This message is sent to students who demonstrated mastery on a quiz; this message is sent no more than once every 2 weeks to any individual student.

Subject:
Well done

Message:

[FIRST NAME], well done on the [PRIMARY OUTCOME NAME] Quiz. Keep up the good work.

Subject Preview:
Well done

Message Preview:

Agamemnon, well done on the History of Ancient Greece Quiz. Keep up the good work.

Dr. Curtis

Proofread your message here, noting how it looks with sample student info and your signature.

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Study Plan
Economic Thinking

GET STARTED

Why It Matters
Show What You Know

DIVE IN

1. What Is Economics?
   WELL DONE 10/10

2. Economic Models
   NEEDS WORK 1/4

3. Math in Economics
   WELL DONE 4/4

4. Graphs in Economics
   WELL DONE 6/6

Problem Sets

FINISH STRONG

Putting It Together
Ready for the Quiz?
Economic Thinking

GET STARTED

Why It Matters

Show What You Know

DIVE IN

1. What Is Economics?
   WELL DONE 10/10

2. Economic Models
   NEEDS WORK 1/4

3. Math in Economics
   WELL DONE 4/4

Economic Models

1. Outcome: Economic Models
2. Video: Economic Models and Theories
3. Reading: Using Economic Models
4. Self Check: Economic Models

WHY DOES THIS NEED WORK?

You missed some questions about this outcome on your last quiz attempt.

QUIZ

50%

4. Graphs in Economics
   WELL DONE 6/6

5. Problem Sets
   9/2

FINISH STRONG
What’s Next?

• Fine-grained, ongoing continuous improvement of content and assessments

• Additional Waymaker courses

• Expanded Teacher Tools

• Nudges that encourage students and instructors to take advantage of Waymaker’s research-based features