Instructor's Individualized Reports (IIR) from the DLESE Community Review System (CRS)

Neil Holzman (nholzman@ldeo.columbia.edu)
Kim Kastens (kastens@ldeo.columbia.edu)
Robert Arko (arko@ldeo.columbia.edu)

Presented at the 2005 DLESE Annual Meeting, University of South Florida, St. Petersburg, Florida

Rationale

CRS Individualized Instructor’s Reports allow Science Education instructors to:
- Develop and assess student’s ability to evaluate online Science Education resources
- Develop metacognitive awareness and ability to monitor their own learning process

CRS Individualized Instructor’s Reports allow Earth and Environmental Science educators to:
- Find out which DLESE resources their students thought were valuable for learning
- Compare their views of a resource with those of their students
- Students learning through their use of DLESE resources:
  - Develop metacognitive awareness and ability to monitor their own learning process
  - Feel pride in making contributions to the educational enterprise

Outcomes

Teacher Comments
(From evaluative telephone interviews with secondary level teachers)

Unsolicited comment:
"...got the kids to think about how they’re learning...a great aspect of having the kids do reviews."

When asked about the value of the reports:
"A privilege to get such thorough and comprehensive reports..."

"It was interesting to see what my students said about what we did."

Student Comments
(Selected statements written during online reviews by secondary level students)

"It was fun and I understand things easier when I’m having fun.
"This was a lot more useful and entertaining than just looking at it on the computer."

"I liked how I had to click on all the time periods or pictures in order to continue on. This resource is an excellent exploratory tool. I would have been reading about the volcano in a regular book.”

"The only suggestion I would have is to give descriptions of each of the lessons on the main page so the user does not have to click on each lesson to find out what it is about.”

"It was interesting to read this at a time when Mt. St. Helens was becoming active again and I was following the events there."

"I could print off and use.”

"I liked that this source has lesson plans and worksheets/charts that are available and it also had worksheets/charts that students. It has excellent pictures for students to see what they have been reading about.”

"It doesn’t have a lot of base information but it is good for kids who don’t like to read."

Do students and teachers agree on the effectiveness of DLESE resources?

For each resource, we compared the ratings of students and of teachers to calculate a student overall mean rating, and we averaged across all those who rated each resource to calculate a teacher overall mean rating. The results indicated that the teachers generally rated the resources higher than the students did. The learning designers were questioned about the differences in their views. The two "Motivational or inspirational for learners" rubrics; the teachers ranked the resources much higher on these rubrics than the students. The starred data points in the chart below show the differences in the two "Motivational or inspirational for learners" rubrics; the teachers ranked the resources much higher on these rubrics than the students. The starred data points in the chart below show the differences in the two "Motivational or inspirational for learners" rubrics; the teachers ranked the resources much higher on these rubrics than the students.

For each of the rubrics that appears on both teacher and learner surveys, we averaged across all students and all rubrics to calculate a student overall mean rating, and we averaged across all teachers who rated each resource to calculate a teacher overall mean rating. The data indicated that the reports move more rapidly along the pathway to the DLESE Reviewed Collection.

In the broader DLESE Community:
- The community as a whole receives additional insights about the resource via the publicly posted portion of the reviews
- Resources receive a substantial number of reviews more quickly along the pathway to the DLESE Reviewed Collection
- Resources receive concentrated doses of feedback on resource effectiveness

You may view an online sample of an Instructor’s Individualized Report at:
http://www.dlese.org/documents/PDFs/iir-expl.cgl.pdf

Would you like to:
- Receive feedback that would help you decide which DLESE resources work best with your students?
- Receive an Instructor’s Report that aggregates your students’ reviews of a DLESE resource they have used?
- Be able to compare your assessment of a DLESE resource with your students’ assessment?

If yes, complete the form below.

Funded by NSF via Awards DUE00-85827, DUE02-26292, and EAR03-05092.

Thanks to Linda Pistolesi for preparing the poster graphics.