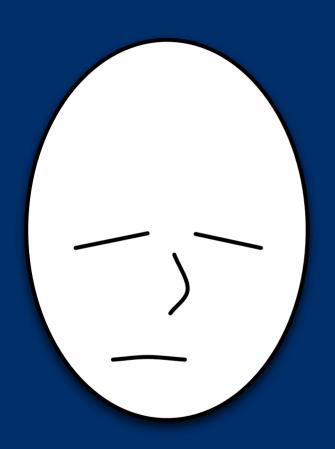
The Changing Teacher Workload (How not to get buried by your suddenly productive students)

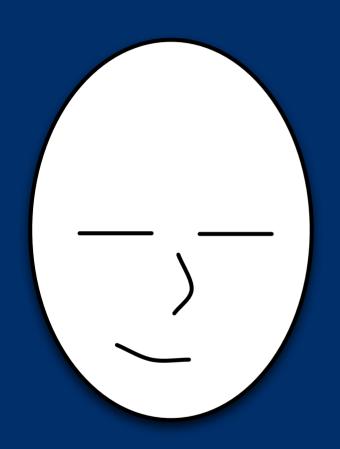
PETE & C HERSHEY LODGE FEBRUARY 11, 2009

Problem: Teacher Exhaustion



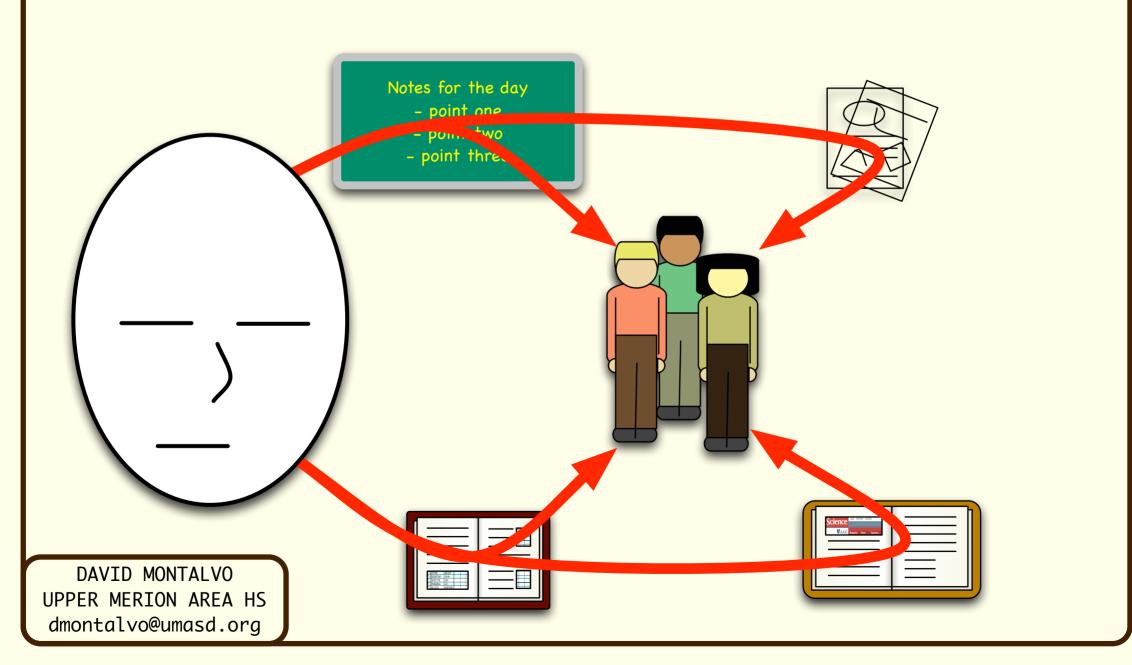
- INTENSIFICATION OF TEACHER-CENTEREDNESS
- DIGITAL WORKSHEETS
- SPEED OF STUDENT TYPING

Solutions to Teacher Exhaustion

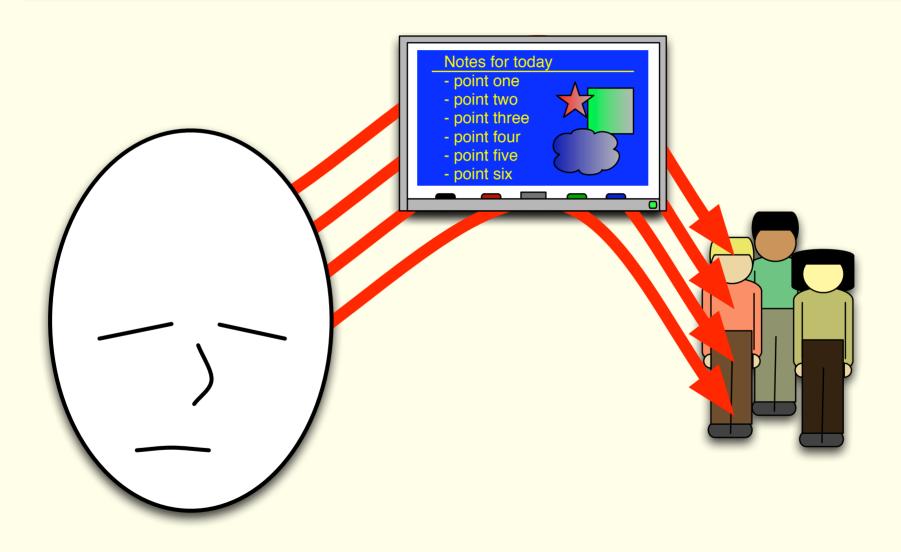


- TEACHER DECENTERING
- HIGHER LEVEL WORK (AUTOMATE LOWER LEVEL WORK)
- THE FORMATIVE CONVERSATION

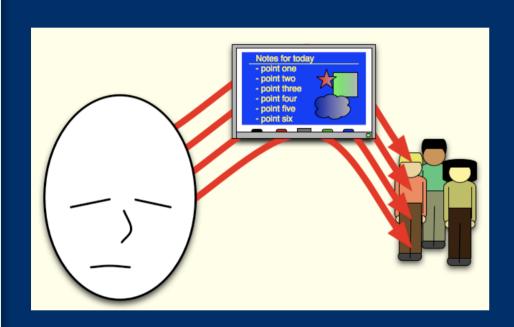
Teacher-Centered Model (traditional)



Teacher-Centered Model (technological)



Teacher-Centered Model (technological)



- INCREASED RELIANCE ON HOMEMADE
- TEACHER PERFECTIONISM
- DOING MORE BECAUSE YOU CAN DO MORE

The emphasis is on presentation: teacher presentation

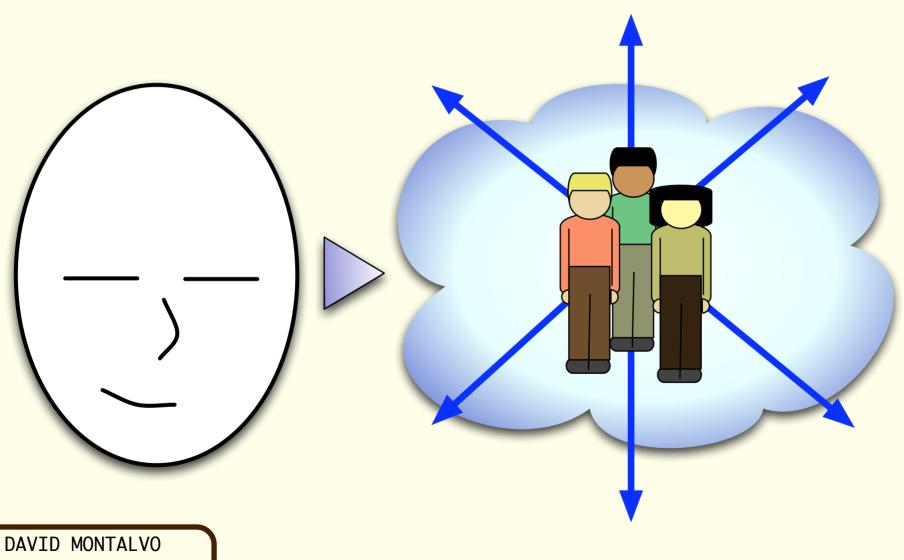
Teaching as engineering learning environments

- DYLAN WILIAM
PLENARY ADDRESS TO THE NSTA
CONVENTION ON SCIENCE ASSESSMENT
APRIL 2006, ANAHEIM, CA

I was an ingenious teacher, clever about thinking up lesson plans and demonstrations and motivating devices [...]. And only very slowly - believe me, painfully - learned that when I started teaching less, the children started learning more.

> - JOHN HOLT LEARNING ALL THE TIME PERSEUS BOOKS, 1989

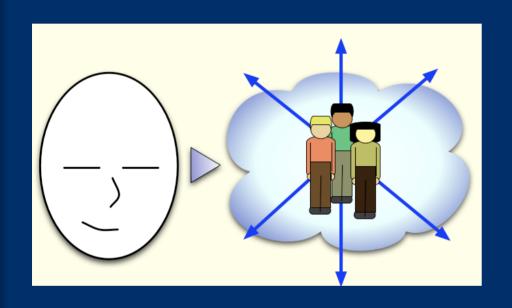
Teacher as Classroom-Environment Engineer



That is not to say that children must discover everything unaided. [...] We can so arrange the materials before them that discovery is made more likely. Real learning is a process of discovery, and if we want it to happen, we must create the kinds of conditions in which discoveries are made.

- JOHN HOLT
LEARNING ALL THE TIME
PERSEUS BOOKS, 1989

"The Real Work of 21st Century Skills"



- TALK BY ED COUGHLIN OF THE METIRI GROUP AT PETE&C 2008

Producing Self-Directed Learners

<u>Definition of Self-direction:</u>

The ability to set goals related to learning, plan for achieving these goals, independently manage time and effort, and independently assess the quality of learning as well as any products that result from the learning experience.

- from metiri.com/21/SelfDHome.html

Self-direction promoters: Grade based on progress and effort Opportunities to rework Scaffolding Authentic learning Attribute success & failure to

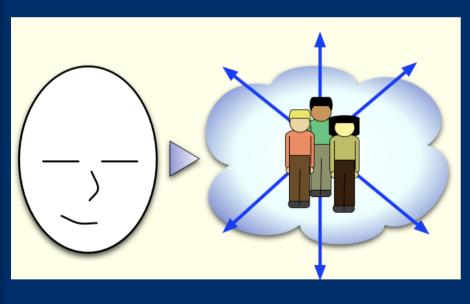
things the student has control over

- from metiri.com/21/SelfDHome.html

Self-direction inhibitors: Failure linked to intelligence Assigning low-quality work Equating easy with smart Rewarding status Praising intelligence instead of progress and effort

- from metiri.com/21/SelfDHome.html

Promoting Self-Direction & Maximizing Teacher Effort



- AUTOMATE LOW-LEVEL WORK

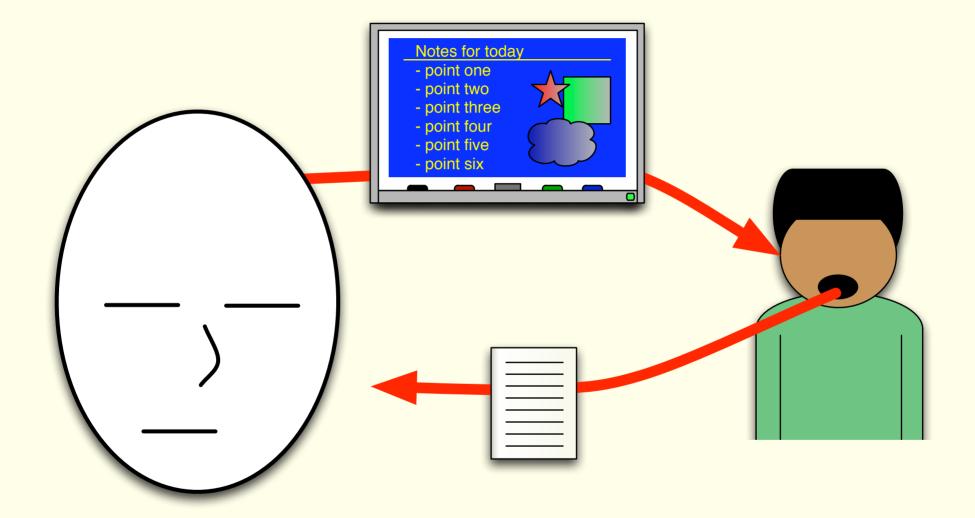
- THE FORMATIVE CONVERSATION

- RETHINK GRADING

- NORMAL WORK VS CREATIVE PROJECTS FALSE DICHOTOMY

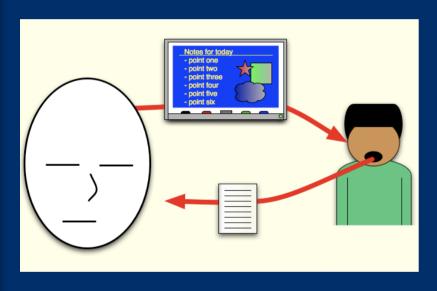
- RETHINK CHEATING

Low-Level Work



Low-Level Work

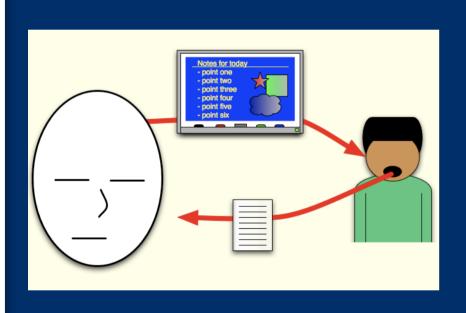
- IF IT CAN BE LOOKED UP, WHY MEMORIZE IT?



- WHY NOT PROVIDE RESOURCES AND TEACH GOOD INFO LITERACY SKILLS INSTEAD?

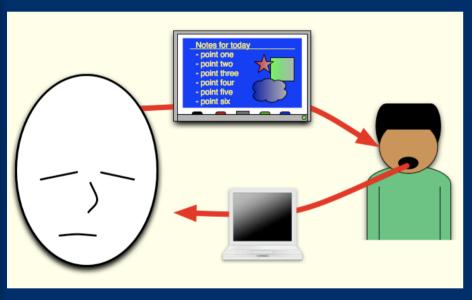
- OK, SO YOU STILL WANT TO TEST LOW LEVEL STUFF - THEN AUTOMATE IT!

If you must assign it, then find a medium for low-level work that...



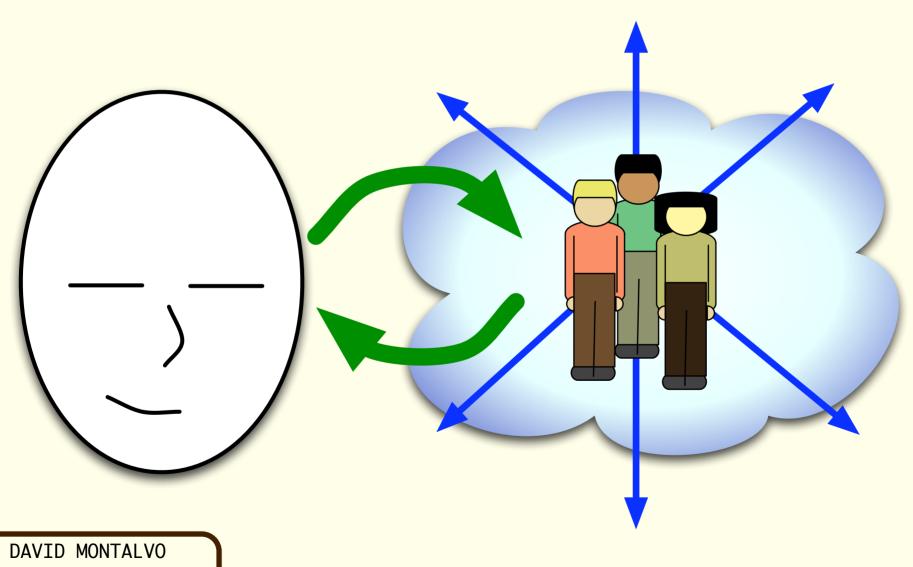
- GRADES ITSELF
- GIVES INSTANT FEEDBACK
- IS FLEXIBLE WITH MULTIPLE TESTING
- CAN BE REUSED FROM YEAR TO YEAR
- IS SHAREABLE

The Logistical Danger of Low-Level Work



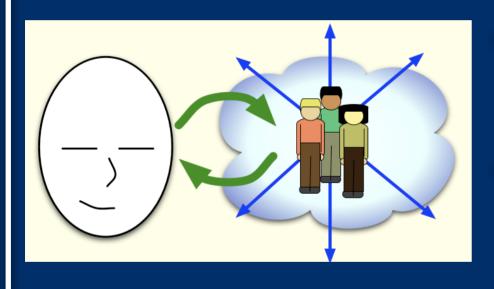
- YOU SPEND TIME CREATING GREAT PRESENTATIONS
- YOU SPEND TIME CREATING WHAT AMOUNT TO DIGITAL WORKSHEETS
- YOU WILL DROWN IN THEM
- THE STUDENTS TYPE TOO FAST

Assign Authentic Work & Get Involved in the Formative Conversation!



The Formative Conversation

- MAKE IT EASY FOR TEACHERS
TO RETURN WORK WITH
COMMENTS



- MAKE IT EASY FOR STUDENTS TO RESUBMIT WORK
- ESCHEW POINTS AND AVERAGING
- ADOPT AT HOLISTIC GRADING SCHEME
- DEMAND HIGH QUALITY WORK - AND GRADE ACCORDINGLY

Here are two children trying to learn, say, long division. child gets it at the first crack. [...] The other child has a hard struggle. [...] Only after many failures does he finally catch on. But he does, and at the end of the marking period he too does a perfect paper. [continued >>>]

- JOHN HOLT
WHAT DO I DO MONDAY?
EP DUTTON, 1970

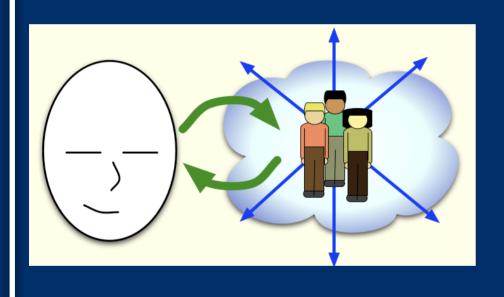
In a class where daily grades are averaged in, his perfect paper will be averaged against all the failures made while he was learning [...]. This is idiotic, unfair, outrageous. The aim of the class is to learn long division, not to have a contest to see who can learn it in the fewest number of tries.

> - JOHN HOLT WHAT DO I DO MONDAY? EP DUTTON, 1970

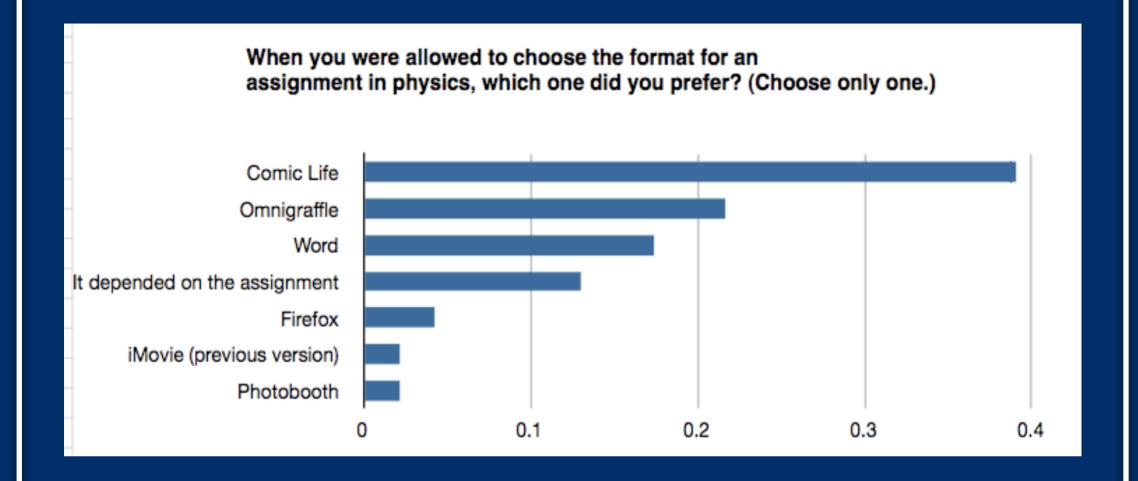
What sense does an average mark make in a course like English? Do we average a serious writer's best work against his worst?

- JOHN HOLT
WHAT DO I DO MONDAY?
EP DUTTON, 1970

The Serious Work vs Creative Project Dichotomy



- "LET'S DO A PODCAST, KIDS!"
- IT'S A FALSE DICHOTOMY
- STOP CONSTRAINING THE MEDIUM
- SET THE STANDARDS & LET THE KIDS FIGURE OUT HOW TO PUT IT TOGETHER (INFO LITERACY)



- FROM A SURVEY ADMINISTERED TO MY STUDENTS AFTER THE FINAL EXAM, 6/2008

[Public schooling] came into being to meet the needs of industrialism. Their hierarchy is rooted in two ideas: number one, the most useful subjects for work are at the top. Don't do music - you're not going to be a musician; don't do art - you're not going to be an artist... benign advice, now profoundly mistaken.

- SIR KEN ROBINSON
"DO SCHOOLS KILL CREATIVITY"
TED.COM
[TRANSCRIBED BY ME]

Re-Think Cheating

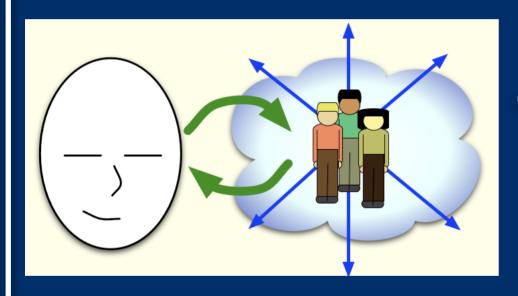
- CHEATING: THE USE OF UNAUTHORIZED RESOURCES

-LOOK AT OUR MODEL

- DO YOU REALLY WANT TO DISABLE THE MOST SINGLE MOST POWERFUL BENEFIT OF THE CFF PROGRAM?

- AUTHORIZE THOSE SOURCES (INFO LITERACY)

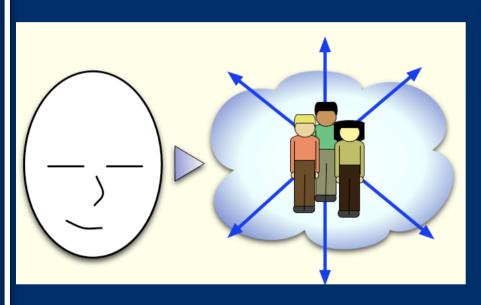
- THE NECESSITY OF LEARNING TO WORK TOGETHER



Many people say, "But won't the children cheat?" This shows how much we, like the children, have slipped into thinking of school as a contest, a battle of wits between teachers and children [...]. There is no contest - and shouldn't be.

- JOHN HOLT
WHAT DO I DO MONDAY?
EP DUTTON, 1970

Promoting Self-Direction & Maximizing Teacher Effort



- AUTOMATE LOW-LEVEL WORK
- THE FORMATIVE CONVERSATION
- RETHINK GRADING
- NORMAL WORK VS CREATIVE PROJECTS FALSE DICHOTOMY
- RETHINK CHEATING