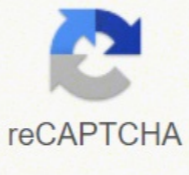




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How do you use data to inform instruction

Gather and use valuable student data to inform your classroom practice. December 6, 2011 Updated March 2, 2017 The number one job of a teacher is to be faithful to authentic student learning. Unfortunately, our profession is overly fixated on results from one test, from one day, given near the end of the school year. Yes, that standardized testing data can be useful; however, we teachers spend the entire year collecting all sorts of immediate and valuable information about students that informs and influences how we teach, as well as where and what we review, readjust, and reteach. Here's how teachers collect student data and some of the ways we use it. Formative Assessments: Low-stakes assessments are really the most important and useful student data. Exit slips, brief quizzes, and thumbs up/thumbs down are a few of my favorite ways to gather information on where students are and where we need to go next. Observations: The beauty of having a constructivist, student-directed classroom? The kids are comfortable with you walking around and sitting with them in their groups—your “guide on the side” role. In other words, they don't freeze up when you step away from the podium or your regular spot by the whiteboard. This freedom allows you to be a fly on the wall, gathering data on individual students: How well are they making sense of the content? Interacting with others? Are they struggling with a learning activity? Such data from observations then leads us to adjust pacing for the whole class or scaffold for those students who are still struggling. Projects, Essays, and Exams: Summative assessments, such as literary analysis essays or end-of-unit science exams, allow us to measure the growth of individual and whole-group learning. If a large number of students don't do well on a high-stakes assessment, we need to reflect back on the teaching and make necessary adjustments in the future. It's difficult to find the time to read students' files, but if you haven't before, trust me, it's well worth it. Much information is found in these files. From trekking to the counseling office after school, sitting down with a cup of coffee, and reading through the files of students I had questions about (beyond the data in hand), I've discovered critical information. Here are some notable examples: A girl who often missed class was homeless, living in the family car. Several students who had been identified as gifted were inaccurately placed in my general education English class. A boy struggling to fit in had been recently diagnosed with schizophrenia. More than a dozen students who never wore eyeglasses in class (or contacts—I checked!) had prescriptions. From a child's cumulative files, you can sometimes see a dramatic grade change at a specific point during their school journey. Perhaps prior to eighth grade, the child had been an A student and then started earning Ds and Fs. You can express concern about this, sharing the data with them. The students may then share a reason with you: Their parents divorced, or they moved to a new city/community. One student told me that she just gave up on school when her dad went to prison. You then have an opportunity to be empathetic, acknowledge their hardship, and set some goals together for them to improve academically. I've also used this data to refer students for further counseling services or advocate for additional support for them. Taking a look at previous standardized test scores for your current students is beneficial in several ways. A disclaimer: Just as one grade does not determine all that a student is or isn't, neither does one test score. Use standardized testing results along with other data (e.g., in-class assignments and observations) when making instructional decisions. That said, here are some suggestions for using standardized test data: Share Testing Results With Students Individually: After doing this, set some obtainable, realistic goals for each of them to work toward before the next test. (By the way, I don't agree with making this data public for other students to see, as was done at one Orange County, California, high school.) Use the Data to Decide Student Grouping and Differentiation: Standardized test data reveals how your students performed: advanced, proficient, basic, and below basic. This could help inform how you choose student groups, create seating charts, and differentiate for individuals. For example, if I have a student who has historically scored below basic and exhibits other signs of a struggling student, I like to place her in the front of the class so that I can easily access her when she needs extra support. If you have a large number of students who scored advanced in your third period class, and a large number of students who scored basic in period two, this may give insight into why period three is moving more quickly and more deeply through content. You can adjust the learning and support accordingly. Get Curious About Contradictions and Take Action: How about that ace student who didn't do so well on the standardized test? Possibly a nervous test-taker? Or it could simply be low motivation, since many students never hear about their standardized test results from previous years? Prior to a test, a brief pep talk or quick review of strategies for lowering test anxiety could be all they need. Also, there is much information to be gained from having individual conversations with students who have these contradictions between their standardized test scores and their classroom grades and performance. Assessment Formative Assessment There are various ways for researchers to collect data. It is important that this data come from credible sources, as the validity of the research is determined by where it comes from. Keep reading to learn how researchers go about collecting the data for their studies. Government Websites One of the best sources that researchers can use to collect data is government websites. Almost everything listed on government websites has been fact checked. To research and collect data from government websites, all you have to do is type “site:gov” in the search box after your search term. For example, if you are wanting to research the benefits of data for the customer experience, you can type “benefits of data for customer experience site:gov” in the search box, and all of the sites listed in the search results are going to come from government websites. All government websites end in .gov. Education Websites Much the same as government websites, educational websites are great places to pull credible data from. And just as you use a special search technique to find government websites, you can do the same for educational websites. All you have to do is follow your search term with “.edu.” Using the example above, your search term would be “benefits of data for customer experience site:edu.” Use the Library The library is a great place to turn when you are in need of data. At the library, you can use a card catalog to direct your research efforts. Some research materials are available only on film. Make sure to ask the librarian about any microfilm or microfiche film items. The librarian can point you in the direction of the machine that you'll need to read the information on the films. Interviews and Surveys You can always turn to interviews and surveys to collect data for your research. In fact, interviews with real people are one of the best ways to get real data. You can set up research studies to perform interviews. Use the Internet In addition to .edu and .gov websites, the other sites on the internet are also a great resource for data. It's just important that you fact check all of the information that you choose to use. This means that you need to check where the information was pulled from. And if you find that the information was pulled from a source that has another source, it's essential to check that source as well. The goal is to make sure the data is coming from a source that is legitimate and an expert in the relevant field. MORE FROM QUESTIONSANSWERED.NET In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. Data inconsistency occurs when similar data is kept in different formats in more than one file. When this happens, it is important to match the data between files. Sometimes, files duplicate some data. When information like names and addresses are duplicated, it may lead to a compromise in data integrity. What Is Data Integrity? Data integrity occurs when the data in a database are consistent. Every organization relies on data integrity to ensure that they have reliable and accurate information. The information must also be consistent with real-world events. When an organization has strong data integrity, the data represents real information. For example, it provides accurate information about a patient's address and phone number after they have moved. Data Inconsistency Is Caused By Redundancy Redundant data is a problem because it can create unreliable information. One person may change the value in one file but not in another file. This is a problem for companies that rely on accurate data. Let's say that a hospital has a system for file processing, but several files for one patient are kept separately. If a professional changes the patient's address in one file but not in any others, the patient's bill, or insurance information could be sent to the wrong destination. If you do not have the right phone number on each file, you may find yourself running into problems regarding which one to call. How to Prevent Data Redundancy Several methods can prevent data redundancy. For one, planning better structures for databases can prevent data from being present in several files. In some cases, this is not possible. Normalizing a database is the next step. The process involves cleaning up the tables in the database. The goal of preventing data redundancy is to ensure that information is in one place. It is not scattered throughout the database. Sometimes an organization tries to normalize a database. They may not be able to clean up all the redundant information. When this happens, one may see a data anomaly. Human Error Sometimes, the organization needs to step in and ensure that employees are trained properly. Data input can be tricky, and untrained employees may not realize they are adding new information rather than changing old information. How to Prevent Data Inconsistency People approach data inconsistency in two ways. One way to fix the problem is through central semantic storage. This requires a lot of logging and storing rules. It also involves creating a central area for information. The process can be difficult. You can also use the master reference store approach. This process seeks to centralize the data. This means that there are strict rules about where the database stores information. The goal of this approach is to have more control over important data. It may require more resources than other methods. Every organization wants its data to be accurate and reliable. From insurance companies to tech companies, organizations all across the country need to know the information they have collected is useful. MORE FROM REFERENCE.COM

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