Chapter IV
Assessing Creativity Using the Consensual Assessment Technique

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ABSTRACT

The Consensual Assessment Technique is a powerful tool used by creativity researchers in which panels of expert judges are asked to rate the creativity of creative products such as stories, collages, poems, and other artifacts. Experts in the domain in question serve as judges; thus, for a study of creativity using stories and poems, a panel of writers and/or teachers of creative writing might judge the creativity of the stories, and a separate panel of poets and/or poetry critics might judge the creativity of the poems. The Consensual Assessment Technique is based on the idea that the best measure of the creativity of a work of art, a theory, a research proposal, or any other artifact is the combined assessment of experts in that field. Unlike other measures of creativity, such as divergent-thinking tests, the Consensual Assessment Technique is not based on any particular theory of creativity, which means that its validity (which has been well established empirically) is not dependent upon the validity of any particular theory of creativity. This chapter explains the Consensual Assessment Technique, discusses how it has been used in research, and explores ways it might be employed in assessment in higher education.
INTRODUCTION

Assessment of creativity presents a unique challenge in higher education. Although there are tools on the market for assessing creativity, most are designed for young children, and all tend either to lack sufficient validity and reliability or to assess only rather trivial aspects of creativity (or, in many cases, both). If creativity is to be assessed in college settings in a meaningful way, divergent-thinking tests like the Torrance Tests of Creative Thinking and other commonly used creativity tests are inadequate because they fail to meet even the loosest standards of validity. (And unless we are teaching masonry, do we really care how many uses someone can think of for a brick? Sadly, this is the kind of question that most creativity “tests” are based on.) Self-report measures of creativity and global assessments of students’ creativity by others (such as teachers) have also failed to demonstrate sufficient validity to be trusted for most uses (Baer, 1993; Kaufman, Plucker, & Baer, in press). Despite the importance of creativity, its assessment has proven to be extremely difficult.

The Consensual Assessment Technique is a fairly new method of measuring creativity that could open up new avenues for creativity assessment in higher education. First proposed by Teresa Amabile in 1982 and further developed by her and other researchers in the last quarter century (Amabile, 1982, 1983, 1996; Baer, 1993, 1994a, 1994b; Baer, Kaufman, & Gentile, 2004; Hennessey, 1994; Kaufman, Baer, Cole, & Sexton, in press), the Consensual Assessment Technique is now a well validated tool for assessing creativity. It has been called the “gold standard” of creativity assessment (Carson, 2006), but its use has been limited primarily to research settings. It can be used in any field; for example, it can be used for judging the creativity of (a) students’ research designs or theories in science, (b) their artistic creations and their musical compositions, or (c) the poems, stories, and essays that they write. It therefore has enormous potential for assessing creativity in higher education settings.

BACKGROUND

Why do you believe that Van Gogh’s paintings of sunflowers are creative? On what basis do you judge the special theory of relativity to be highly creative? Why do you think Shakespeare was a more creative dramatist than Marlowe? And how would you judge the creativity of some recent ten- and eleven-dimensional string theories?

You may be comfortable answering some of these questions, but unless you are truly a Renaissance person, it’s unlikely that you feel qualified to make a defensible response to all four of them. And even though you might know enough about, say, the works of Shakespeare and Marlowe to give an informed opinion, does your opinion really “count” as much as the opinions of recognized experts in the field of English literature?

How is creativity judged at the highest levels? Why are some works of art treasured and others forgotten? Why do some theories, compositions, books, and inventions win prizes? These kinds of decisions aren’t based on a procedure or rubric that awards points for different attributes of a painting, composition, or theory. There is no test to determine which historian’s theories, which bio-chemist’s models, or which screenwriter’s movies are the most creative. Nobel Prize committees don’t apply rubrics, complete checklists, or score tests. What do they do? They ask experts. The most valid assessment of the creativity of an idea or creation in any field is the collective judgment of recognized experts in that field. And while it’s true that experts in different times and places may come to different conclusions (and pity the unfortunate artists and scientists whose genius is only recognized when it is too late for them to enjoy their posthumous fame), at any given time,
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the best judgment one can make of the creativity of anyone’s ideas, poems, theories, artworks, compositions, or other creations is the overall judgment of experts in their field.

The Consensual Assessment Technique is based on the rather simple idea that the best measure of the creativity of a work of art, a theory, or any other artifact is the combined assessment of experts in that field. Whether one is selecting a short story for a prestigious award or judging the creativity of a painting in an undergraduate art show, one doesn’t compute a creativity score by following some checklist or applying a general creativity-assessment rubric. The most valid judgments of the creativity of such artifacts that can be produced -- imperfect though these may be -- are the combined opinions of experts in the field. That’s what most prize committees do (which is why only the opinions of a few experts matter when choosing, say, the winner of the Fields Medal in mathematics -- the opinions of the rest of us just don’t count). The Consensual Assessment Technique uses essentially the same procedure to judge the creativity of more everyday creations.

Creativity assessment is made difficult by many things, not the least of which are disagreements about the nature of creativity. One of the most fundamental questions in creativity theory and research is the issue of domain specificity. Are the skills, talents, personality characteristics, ways of thinking, and other determinants of creative performance general-purpose traits that a person possessing them can bring to bear on any kind of task? Can one’s creativity as a composer of music help her produce more creative paintings? Can one’s creativity as a chef help him write more creative short stories? Is a creative biologist likely also to be rather creative as a teacher, a poet, and a dancer? Or, on the other hand, is creativity quite domain specific, such that whatever leads to creativity in one domain may be different from that which leads to creativity in other domains?

In the only Point-Counterpoint exchange in its history, the Creativity Research Journal asked two leading researchers in the field to make the case for these opposing conceptualizations of creativity (Baer, 1998a; Plucker, 1998). This issue remains unresolved (for recent developments, see Baer & Kaufman, 2005; Kaufman & Baer, 2005a), and because most creativity tests are tied to one or the other of these models (almost all assume domain-generality, which until recent years was the most commonly accepted hypothesis), the validity of creativity assessment is tied to the validity of particular models of creativity (in addition to all the usual issues that validity raises regarding any test).

Unlike just about every other technique for creativity assessment, the Consensual Assessment Technique is not tied to any particular theory of creativity. It works equally well no matter how the domain generality/specificity issue may one day be resolved (or not resolved; as in many contentious issues, the truth is probably somewhere in between this polarity, and the most likely resolution is perhaps a hierarchical model of some type that includes both domain-general and domain-specific features, such as the theory proposed by Kaufman and Baer (2005b)). The Consensual Assessment Technique is based on actual creative performances or artifacts, and it mimics the way creativity is assessed in the “real world.” This approach is not without limitations, however. The Consensual Assessment Technique relies on comparisons of levels of creativity within a particular group, and it is therefore not possible to create any kind of standardized scoring using Consensual Assessment Technique ratings that might allow comparisons to be made across settings. Its widest use to date has been in research, but it can also be used for many kinds of assessment in higher education, as will be explained below.
PROCEDURE FOR USING THE CONSENSUAL ASSESSMENT TECHNIQUE

The basic technique is quite simple:

1. Subjects are asked to create something (e.g., a poem, a short story, a collage, a composition, an experimental design).
2. Experts in the domain in question are then asked to evaluate the creativity of the things they have made.

The experts work independently and do not influence one another’s judgments in any way. The most common kinds of tasks have been writing poems, creating collages, and writing short stories, but the potential range of creative products that one could use is quite wide. No attempt is made to measure some skill, attribute, or disposition that is *theoretically linked* to creativity; instead, it is the *actual* creativity of things that subjects have produced that is assessed. The focus is therefore on creative products, not creativity-relevant talents or attributes that are hypothesized to influence creativity. It is the product or performance itself that is of interest. As Csikszentmihalyi (1999) wrote, “If creativity is to have a useful meaning, it must refer to a process that results in an idea or product that is recognized and adopted by others. Originality, freshness of perception, and divergent-thinking ability are all well and good in their own right, as desirable personal traits. But without some sort of public recognition they do not constitute creativity… The underlying assumption [in all creativity tests] is that an objective quality called ‘creativity’ is revealed in the products, and that judges and raters can recognize it” (p. 314). So instead of trying to measure things that might be associated with creativity or that might be predictive of creativity, the Consensual Assessment Technique goes right to the heart of creativity by looking at the creative (or not-so-creative) products that subjects have produced.

Here’s the basic Consensual Assessment Technique procedure: Subjects are given some basic instructions and, where necessary, materials, for creating some kind of product. All subjects are given the same materials and instructions. Then a group of experts, each working independently of one another, assesses the creativity of those creations. In one study, for example, “students were given a line drawing of a girl and a boy . . . [and] asked to write an original story in which the boy and the girl played some part” (Baer, 1994a, p. 39). Experts in the area of children’s writing were then asked to rate the creativity of the stories on a 1.0-to-5.0 scale. (The range of the scale is a matter of choice, but should have at least three score points so that there can be some diversity of ratings. Typically judges are free to use fractions if they choose -- e.g., a judge might give a creativity rating of 3.5 -- but in practice, few judges actually employ fractions even when the option exists.) The judges are *not* asked to explain or defend their ratings in any way, and it is important that no such instructions be given. Judges are simply instructed to use their expert sense of what is creative in the domain in question to rate the creativity of the products in relation to one another. That is, the ratings can be compared only *within* the pool of artifacts being judged by a particular panel of experts. High or low levels of creativity, as revealed by the Consensual Assessment Technique, refer to differences within the group of artifacts judged, not in comparison to any external standard. Judges are asked to use the full scale (that is, not to rate all the artifacts as 1s or 2s, or all as 4s or 5s. The goal is to get ratings of the *comparative* creativity of the things being judged. For this reason, a poem that might be judged to be highly creative in one group of rather pedestrian poems might receive a much lower creativity rating if it were included in a group of much more creative poems.
VALIDITY AND RELIABILITY

The Consensual Assessment Technique assesses creativity at all levels -- everyday creativity as well as creativity at the highest levels -- in the same way that creativity is assessed at the genius level, by asking experts in that field. This is the standard against which any other judgment of creativity would be measured. Rather than use a test, a rubric, or some other device to approximate the judgments of experts, the Consensual Assessment Technique goes directly to the most valid yardstick, the experts in a given domain. It is of course true that experts don’t always agree and expert opinion may change over time, but at any point in time there is no more objective or valid measure of the creativity of a work of art than the collective judgments of artists and art critics, just as there is no more valid measure of the creativity of a scientific theory than the collective opinions of scientists working in that field. And for the more everyday, garden-variety creativity of most creativity research and most creativity assessments in higher education, the fact that fields may experience paradigm shifts over time is of little significance because few if any of the products being judged will be at the cutting edge of a domain.

But do experts agree? Are they of one opinion regarding which poems, collages, theories, etc. are the most and least creative? A very large number of studies have shown that they consistently do agree, and to a remarkable degree (especially when judging everyday, garden-variety creativity), although of course they do not agree completely (which is why a group of experts, working independently, is needed).

Inter-rater reliability using the Consensual Assessment Technique is typically measured using Cronbach’s coefficient alpha, the Spearman-Brown prediction formula, or the intraclass correlation method. These methods generally yield similar inter-rater reliability estimates. Amabile (1983) described a series of 21 studies of artistic (collage-making) and verbal (poetry-writing and story-telling) creativity. The inter-rater reliabilities ranged from .72 to .93. In her more recent work Amabile (1996) has found a similar range of inter-rater reliability correlations (from .70 to .89), and other researchers have generally reported similar inter-rater reliabilities among expert judges, typically in the .70-to-.90 range (e.g., Baer, 1993, 1997, 1998b; Baer, Kaufman, & Gentile, 2004; Conti, Coon, & Amabile, 1996; Hennessey, 1994; Kaufman, et al., in press; Runco, 1989). Just as longer tests generally have better reliability, the greater the number of judges who assess the products independently, the higher the overall inter-rater reliability correlations. The average number of expert judges reported by Amabile (1966) was just over 10, with a low of 2 and a high of 40.

But perhaps these ratings are really judgments of something other than creativity. To find out, Amabile (1982, 1983) had raters judge creativity and also a number of other attributes of the products they were evaluating. For example, working with the artistic creativity task of collage-making, Amabile found that while experts tended to agree in their judgments of creativity, these creativity ratings were not the same as judgments of such attributes as technical goodness (correlation with creativity ratings = .13), neatness (correlation with creativity ratings = -.26), or expression (correlation with creativity ratings = -.05). There were significant positive correlations with many other judgments, such as novel use of materials (correlation with creativity ratings = .81), complexity (correlation with creativity ratings = .76), and aesthetic appeal (correlation with creativity ratings = .43), but these are all aspects of a collage that should be related to the creativity of that collage. A factor analysis of 23 different ratings produced two factors, creativity and technical goodness, and a similar study using poetry-writing produced similar results, with three factors emerging: creativity, style, and technical correctness (Amabile, 1983). So the creativity ratings obtained using the Consensual Assessment Technique have been
shown to have good discriminant validity and to be assessments of creativity, not of unrelated attributes of the artifacts being judged.

Consensual Assessment Technique ratings of stories, collages, poems, and many other artifacts have been shown to be highly valid measures of creativity in their respective domains, but a caution is in order. The Consensual Assessment Technique does not claim to provide evidence of more general creativity-relevant abilities, a topic about which there has been much debate (see, e.g., Amabile, 1983, 1996; Baer, 1993, 1994a, 1996, 1998a; Conti, Coon, & Amabile, 1996; Plucker, 1998; Plucker & Runco, 1998; Runco, 1987). Some have argued that such general creativity-relevant skills simply do not exist, and therefore there is nothing to measure (and any creativity tests that purports to measure such a general skill cannot possibly be valid, which is perhaps why it has been so difficult to produce a valid creativity test of that kind).

This is to many people a counter-intuitive idea. Of course creativity (as a general skill or trait) exists, many will protest: we see it all the time. And there are many people who are creative in many areas, and others who seem to show little creativity in any endeavor. But this is exactly what one would expect if creativity were totally domain specific (that is, if creativity in one domain did not predict creativity in other domains). If creativity were totally domain specific, creativity in different domains would be uncorrelated (not negatively correlated). There would therefore be a normal distribution of creativity in each domain, and these abilities would be essentially randomly distributed across domains, with some people evidencing creativity in many areas, most people exhibiting varying levels of creativity across domains, and some people showing very little creativity in any domain.

If creativity were a general trait or set of skills that could be applied in any field (so that the same creativity-relevant skills could help a person be a more creative dramatist, a more creative chemist, or a more creative accountant), then one could use one’s poetry-writing creativity to be a more creative chef. This has been tested using Consensual Assessment Technique ratings of creativity in diverse domains, and these in fact show very little domain generality (that is, correlations of ratings of subjects’ creativity in different domains tend to hover near zero, especially if differences attributable to general intelligence is removed; see, e.g., Baer, 1992, 1993, 1998a). Creativity researchers are not in complete agreement on the question of how much domain generality there may be, and the best bet is probably on a hierarchical model of some kind (with some abilities contributing modestly to creativity across domains, others only to creativity with a given domain, and others only on specific tasks within a domain, such as poetry within the larger domain of creative writing; see, e.g., Baer & Kaufman, 2005; Kaufman & Baer, 2005b).

In research assessing the impact of a wide variety of interventions, training, or experimental constraints on creative performance, Consensual Assessment Technique ratings have been shown to work well. The technique is not tied to any one theory of creativity, and because it is uncommitted (and therefore unbiased) regarding most of the big questions in creativity research, it can be used equally well by researchers on either side of most research questions. Consensual Assessment Technique ratings are also generally quite stable across time (Baer, 1994b), but they nonetheless respond well to real within-subject changes in motivation. For example:

1. Amabile (1996) found in a series of studies that experimental conditions that make extrinsic constraints salient (such as offering rewards for completing a task, or leading subjects to expect that their work would be evaluated) lead to generally lower creative performance.
2. Baer (1997, 1998b) discovered that this decrement in creative performance under
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conditions of reward or expected evaluation is much more prominent among girls than boys.

3. Baer (1994a) found that increases in skill based on training were very narrowly domain-specific. Subjects trained using divergent-thinking exercises aimed in poetry-relevant skills wrote more creative poems, but not more creative short stories, than subjects who had not received such training.

This has made the Consensual Assessment Technique useful in assessing the impact of varying constraints on creative performance.

GENDER, RACE, ETHNICITY AND THE CONSENSUAL ASSESSMENT TECHNIQUE

Most intelligence, aptitude, and achievement tests report different mean scores for different races, ethnicities, and sometimes genders. The validity of such assessments has been fiercely debated (see, e.g., Gould, 1981; Halpern, 2000; Herrnstein & Murray, 1994; Jacoby & Glauberman, 1995; Pinker & Spelke, 2005), and we won’t enter that contentious arena. Consensual Assessment Technique scores, in contrast, show very little evidence of differences based on race/ethnicity. Kaufman, Baer, & Gentile (2004) conducted the largest study of this type. They performed three separate analyses of the creativity ratings of 103 poems, 104 fictional stories, and 103 personal narratives written by Caucasian, African American, Latino/a, and Asian eighth-grade students as a part of a study using student work collected by the National Assessment of Educational Progress. Each poem, story, and narrative was rated for creativity by 10 experts in those areas. There were no significant African American-Caucasian differences, and no gender differences on any of the writing tasks. The only significant difference on any of the tasks was in poetry, where there were small but statistically significant differences between the Latino/a-Caucasian groups and Latino/a-Asian groups.

THE RANGE OF CONSENSUAL ASSESSMENT TECHNIQUE APPLICATIONS

The Consensual Assessment Technique has been used in many ways:

1. to compare creative performance under different (intrinsic v. extrinsic) motivational constraints (e.g., Amabile, 1983, 1996);
2. to measure the impact of teaching different skills and content knowledge on creative performance (e.g., Baer, 1993, 2003);
3. to study how varying motivational constraints influence the creativity of boys and girls differently (e.g., Baer, 1997, 1998b);
4. to look for possible gender and ethnicity differences in creativity (e.g., Kaufman, Baer, & Gentile, 2004);
5. to compare and evaluate domain-general and domain-specific models of creativity (e.g., Baer, 1993; Conti, Coon, & Amabile, 1996; Runco, 1987; Ruscio, Whitney, & Amabile, 1998);
6. to study the relationship between process and product in creativity (e.g., Hennessey, 1994);
7. to look at creativity in cross-cultural settings (e.g., Niu, in press; Niu & Sternberg, 2001);
8. to investigate the long-term stability of creativity in a given domain (e.g., Baer, 1994a); and
9. to analyze ways that people with different levels of expertise in a domain conceptualize creativity differently (e.g., Kaufman et al, in press; Kaufman, Gentile, & Baer, 2005).
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The Consensual Assessment Technique has also been used to judge the creativity of such diverse tasks as dramatic performance (Myford, 1989), musical compositions (Hickey, 2001), mathematical equations created by children and adolescents (Baer, 1993), captions written to pictures (Sternberg & Lubart, 1995), personal narratives (Baer, Kaufman, & Gentile, 2002), and mathematical word problems (Baer, 1993).

The standard format for the Consensual Assessment Technique is to have experts judge the creativity of products that have been created under identical conditions (with all subjects receiving the same instructions and time limits), but recent research has shown that the Consensual Assessment Technique also works when the things to be judged have been created under different conditions (Baer, Kaufman, & Gentile, 2004). This makes possible such uses as comparing how different prompts or assignments impact creative performance differently.

USING THE CONSENSUAL ASSESSMENT TECHNIQUE IN HIGHER EDUCATION

The Consensual Assessment Technique is not limited to use in fields most commonly associated with creativity, such as the arts and sciences. As Emerson (1837/1998) reminded us, “There are creative manners, there are creative actions, and creative words; manners, actions, words, that is, indicative of no custom or authority, but springing spontaneous from the mind’s own sense of good and fair” (p. 4; and four paragraphs later he adds “creative reading as well as creative writing” to the list). One might use the Consensual Assessment Technique to judge the creativity of just about anything in which one finds imaginative or original work, such as wedding cakes, cartoons, or even the graffiti found on the walls of buildings.

To date, the Consensual Assessment Technique has not been widely used in higher education, except as a research tool. Although its primary use has been in research, it has also sometimes been used in elementary and secondary education to judge student creativity in a particular area (or several areas) for such purposes as admission to a program for gifted and talented students.

Here are a few arenas in which the Consensual Assessment Technique could be used in higher education:

1. **Research on the effectiveness of college majors or programs.** Colleges want to know how well they are succeeding in their various missions (an interest accreditation boards share). Nurturing student creativity is a goal of some college programs, and in those areas the Consensual Assessment Technique could be helpful. For example, in a program in which students produce a portfolio of creative work, samples of students’ creations from different years in a program could be taken. A group of experts in that field could be asked to rate the creativity of the various creations (not knowing which students produced which work, or in what academic year the work was produced, of course). If the creativity ratings are higher the longer students are in a program -- a very easily computed statistic -- that is very strong evidence that the program is successfully nurturing student creativity. (One could also ask the expert judges to rate the artifacts on other dimensions as well as creativity, of course.)

2. **Selection for admission to competitive programs.** Colleges have long been using an informal Consensual Assessment Technique for selecting students for programs in creative writing, music, art, theater, and other areas. Validation of the Consensual Assessment Technique supports such selec-
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tion techniques and can help guide their use. We know that it is important to use multiple judges; for the judges to make their creativity ratings independently; and for the judges to do what are in effect blind reviews -- that is, they should not know anything about the candidate other than the work being judged. (This is why selections of musicians these days are now often done with the candidate playing from behind a screen, so that other student characteristics -- such as appearance, gender, race, etc. -- cannot be factors in the judges’ decisions.)

3. Evaluations of students in regular courses. In many courses creativity is one aspect of students’ work that is to be evaluated, and in such cases it is often the most difficult evaluation professors need to make. Professors might find it helpful to ask colleagues who do not know the students to make independent judgments of the creativity of students’ work. This is a bit tricky because Consensual Assessment Technique ratings are always, in effect, norm-referenced ratings based on comparisons within the group of creations being judged. As such, a moderately creative work that is part of a group of very uncreative works will earn top ratings, but the same work would receive low ratings in a group of very creative works. Because some classes have higher levels of creativity than others, this could lead to unfair grading-on-the-curve kinds of assessments.

To get around this and to make the creativity ratings more criterion-referenced, one can do what testing companies like the Educational Testing Service do to make sure different versions of tests are of equal difficulty, and what holistic rating systems do to make sure that multiple raters are using the same standards. One needs to include in one’s sample of work some items whose creativity has been previously assessed and for which one has a creativity rating that one trusts. Including a handful of such items that one knows show varying levels of creativity allows one to make adjustments for the varying creativity of the works being judged. Rather than base one’s ratings on how well the students in the class perform in comparison to each other, one can use these extra, previously vetted works as one’s standards. If a student’s work receives a creativity rating equal to a work that one knows to be highly creative, then that is the “score” one would use, not how well it did in comparison to others in the class. (Of course, norm-referenced and criterion-referenced scores typically line up rather closely, but this technique avoids the danger of mis-judging a student’s creativity because of the varying creativity of the group of students who happen to be in her class.)

One can also use the Consensual Assessment Technique to compare the work of students at the beginning and the end of a course, as discussed above in the Research on the effectiveness of college majors or programs section if students will have produced several different works during the semester.

4. Selecting winners of prizes, fellowships, and other honors. Many colleges already use a procedure similar to that used by major prize committees to select winners of competitions -- that is, by having experts in the domain in question judge submissions. Following the procedures of the Consensual Assessment Technique ensures that this process is conducted in a fair and well validated manner. As noted above under Selection for admission to competitive programs, it is important to use multiple judges, for the judges to make their creativity ratings independently, and for the judges to make their judgments without knowing whose work is whose among the artifacts being judged. In competitions such as these, in which some of the judges may know some
of the candidates, blind review is especially important.

CONCLUSIONS AND RECOMMENDATIONS

The Consensual Assessment Technique is a powerful tool for assessing creativity. It has been well validated and is used widely in creativity research. Unlike most “tests” of creativity, the Consensual Assessment Technique does not measure skills or traits that are hypothesized to be part of creative thinking or performance. The Consensual Assessment Technique assesses actual creative performance.

The Consensual Assessment Technique has many potential applications in higher education assessment, but it is not without limitations and drawbacks. It is very resource intensive: assembling groups of expert judges is not simple and it may be expensive. And one cannot replace expert judges with novices (such as by having students judge one another’s work) unless the students themselves have a high level of expertise. While gifted and highly creative students have been shown to rate creativity in ways very similar to experts, college students in general do not (Kaufman, Baer, Cole, & Sexton, in press; Kaufman, Gentile, & Baer, 2005).

The Consensual Assessment Technique is not linked to any particular theory of creativity, and its validity does not rise or fall with the success or failure of any theory. It has also been shown to be free of gender and race/ethnicity biases. It has great potential for creativity assessment in many areas of higher education.

REFERENCES


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KEY TERMS

Consensual Assessment Technique: a method for assessing creativity in which panels of expert judges are asked to rate the creativity of creative products such as stories, collages, poems, and other artifacts.

Creativity: refers to anything someone does in a way that is original to the creator and that is appropriate to the purpose or goal of the creator.

Divergent Thinking: is a kind of thinking that produces a variety of unusual and often original ideas to an open-ended question.

Domain Generality: a theory of creativity that assumes that the skills or traits that underlie creative performance are essentially the same in all domains.

Domain Specificity: a theory of creativity that argues that the skills or traits that underlie creative performance vary from domain to domain.

Reliability: the degree to which scores on a test are consistent -- that test scores do not vary from day to day or depend on who is scoring a test.

Validity: how well a test measures what it is supposed to measure (and that it is not instead measuring other, unrelated variables).

ENDNOTES

1 Even within a given field, different experts might be more appropriate for judging different kinds of works. For example, Pulitzer Prize committees might not be ideal judges of the creativity of compositions by 12-year-old writers; it might be better in that case to have writers and critics who also have familiarity with writings by students of that age serve as judges. Similarly, one might find judgments of the Academy of Motion Picture Arts and Sciences or the Directors Guild useful for judging the creativity of a film, but for judging a film’s likely commercial success (or its entrepreneurial film-making creativity) one might instead consult the People’s Choice Awards.

2 Tests of divergent thinking -- the most commonly used tools for measuring creativity -- are examples of a kind of creativity test that is
anchored to a particular theory of creativity. Divergent thinking tests that ask test-takers to do things like list as many uses for empty tin cans as they can in a short period of time. The theory behind these tests claims that (a) this kind of thinking is important in creativity and (b) the particular content or domain from which the exercise is drawn does not matter. If this kind of divergent thinking is an important component of creativity, and if it doesn’t matter what domain one uses to test it, then divergent thinking tests might indeed be valid measures of creativity. But if either the divergent thinking theory is wrong or the domain generality theory of creativity is wrong, then these tests cannot be valid ways to assess creativity. In contrast, the validity of the Consensual Assessment Technique is not dependent on the validity of any theory of creativity. It is equally valid no matter which creativity theories prove to be most useful or widely accepted, and because it is not linked to any theory, it can also be used to compare and evaluate theories.

3 This argument is parallel to that made by Gardner’s (1983) Theory of Multiple Intelligences. Gardner argues that his intelligences are orthogonal, and therefore one should expect essentially zero correlations between any two intelligences. That does not mean that there will not be some people who have a great deal of all eight intelligences, however (or some who might score low on all eight). It simply means that the intelligences are randomly distributed, and one’s level of intelligence in one area does not in any way predict one’s levels of intelligence in any other areas. Creativity, it has been argued, shows even more domain specificity than Gardner’s eight intelligences (Baer, 1993). This is in line with hundreds of studies of creativity using a variety of assessment techniques. Gender differences in such studies tend to be the exception, not the rule (Baer, 2005; Baer & Kaufman, 2005).