

CREATIVITY AND
ENGLISH LANGUAGE
TEACHING:
FROM INSPIRATION TO
IMPLEMENTATION

ALAN MALEY AND TAMAS KISS



Creativity and English Language Teaching

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Summary of the Book

Part 1 analyses and discusses general creativity theory, creativity in education, in applied linguistics, methodology and teaching materials. In Part 2 we define the key characteristics of the creative teacher and go on to offer practical suggestions for becoming both a more creative person and teacher. In Part 3 we suggest the pre-conditions and frameworks for classroom application. In Part 4 we discuss research implications and suggest some directions for future research.

Contents

1	Introduction	1
	References	3
Part 1	Creativity: Concept to Product	5
2	Creativity Theory	7
	Wallas and the Four-Stage Process	7
	Rhodes and the 4 Ps of Creativity	8
	Koestler and Bisociation	9
	Boden and Conceptual Spaces	11
	Csikszentmihalyi: Individual Talent, Domains and Fields	16
	Gardner and the Nature of Genius	19
	Amabile and Social/Environmental Factors	20
	Bateson and Martin and Playfulness	23
	Nachmanovitch and Improvisation	27
	Storr and Madness	30
	Johnson and the Origin of New Ideas	30
	Gladwell and the Spread of Ideas	35
	Creativity Surveys and Trends	36
	References	43

3	Creativity and Education	47
	From Earlier Philosophers and Theorists	49
	More Recent Critical Accounts	51
	General Educational Dissenters	54
	Ken Robinson	56
	The Experimenters	57
	Educational Creativity	60
	Beghetto and 'Creativity in the Classroom'	61
	Autobiographical Accounts and Memoirs	63
	Concluding Thoughts	64
	References	65
4	Creativity and Applied Linguistics	69
	Creativity in Language and Language Learning	70
	Creative Impact on the Domain	85
	References	88
5	Creativity and Methodology	93
	Macro-Level Changes	94
	The Big Three: Technology, Testing and Materials	102
	The Designer Methods	108
	Micro-Level Creative Innovation	113
	Comments on Methodology	117
	References	118
6	Creativity in Materials and Resources	125
	Related to Content	125
	Visuals	126
	Literature	126
	Creative Writing	127
	Storytelling	127
	Music	127
	Drama/Voice	128
	Translation	128

Related to Processes	129
Closing Comments	131
References	132

Part 2 Focus on the Teacher 137

7 What Is a Creative Teacher?	139
Our Survey Data	142
Ur Survey Data	153
Prodromou Survey	155
References	158
8 Becoming a Creative Person	161
Getting Ready	162
Closing Thoughts	177
References	178
9 Becoming a Creative Teacher	181
The Heart of the Matter	182
Some Specific Activities to Develop Creative Spontaneity	188
Yes, But...	193
References	198

Part 3 Focus on the Classroom 203

10 Pre-conditions for Classroom Creativity	205
What Creative Teachers Do	206
Dörnyei's Motivational Strategies	207
Read's Reflective Teacher Wheel	209
Achieving a Creative Climate in the Classroom	212
References	216

11	Some Possible Frameworks and Procedures	219
	Some Principles for Developing More Creativity	221
	Some Frameworks and Typologies	224
	Using Creativity Theory: The Four Ps, Guilford and Boden	225
	Inputs/Processes/Outcomes Model	227
	Inputs	229
	Processes	230
	Outcomes	231
	Generative Procedures	232
	Expansion	233
	Reduction	233
	Reconstruction	233
	Repetition	234
	Reformulation	234
	Questioning	235
	Matching	235
	Selection/Ranking	236
	Media Transfer	236
	Comparison/Contrast	237
	Interpretation	237
	Creating Text	238
	Performance	238
	Visualisation	239
	Analysis	239
	Adapting Materials	240
	Student-Made Materials	242
	Concluding Remarks	244
	References	244
Part 4	Research on Creativity	249
12	Measuring Creativity	251
	Research Methodologies	252
	References	260

13	Research into Creativity	263
	Person Creativity	263
	Process Creativity	273
	Product Creativity	281
	Press Creativity	286
	Closing Thoughts on Creativity Research in ELT	291
	References	294
14	Network Analysis of Research Papers on Creativity in ELT	299
	Methodology	301
	Analysis	302
	Who Are Linked?	308
	Central Papers	312
	Summary	313
	References	314
15	Suggestions for Further Research	317
	Individual Creativity Versus Collaborative Creativity	317
	Complex Dynamic Systems and Creativity	318
	Critical Pedagogy, Critical Literacy, Knowledge Building	319
	Curriculum and Syllabus	320
	Language Testing and Creativity	322
	Learners' Perception of Creativity	322
	Creativity and Language Teacher Education	323
	Reward, Praise, Feedback and Evaluation	323
	Competition Versus Collaboration	324
	Summary	324
	References	325
16	Conclusion	327
	References	329
	Index	331

List of Figures

Fig. 10.1	Read's reflective teacher wheel	210
Fig. 14.1	Gephi graph of the links between research papers and their references	303
Fig. 14.2	ForceAtlas2 spatialisation of the network	304
Fig. 14.3	The central cluster of the network with colour-coded communities	306
Fig. 14.4	Final network map after in-degree size adjustment and filtering applied	307
Fig. 14.5	Central papers labelled in the network map	312

List of Tables

Table 7.1	Concepts of a creative teacher; survey analysis	146
Table 7.2	Teaching experience of survey participants	151
Table 7.3	Qualities of creative teachers (Prodromou, 2002)	155
Table 11.1	Inputs, processes and outcomes model (Maley, 2011)	228
Table 13.1	Operationalising creativity in Albert and Kormos' (2004) research	269
Table 13.2	Pedagogy of the possible: guidelines for practice (Murray, 2013, p. 392)	279
Table 14.1	Example of citation and weight in research papers	301
Table 14.2	Most cited research papers in creativity in ELT research	310

List of Boxes

Box 2.1	Conceptual Spaces and Creative Processes	12
Box 2.2	Boden and Creativity	14
Box 2.3	Csikszentmihalyi's Characteristics of Creative Individuals	16
Box 2.4	Stimulants to Creativity	22
Box 2.5	Environmental Obstacles to Creativity	22
Box 2.6	Advantages of Creative Activity	40
Box 3.1	Differences Between Education as Control and Education as Liberation	48
Box 3.2	Criticism of Public Education	59
Box 4.1	Jones (2016b) on Creativity and Language	79
Box 5.1	Testing Versus Evaluation	104
Box 7.1	Attributes, Authenticity and Atmosphere in Teacher Training	140
Box 7.2	The 'My Teacher' Project (Maley, 2010)	156
Box 7.3	Qualities of Teachers Their Students Remember	156
Box 8.1	Ideas for Meditation Exercises	166
Box 8.2	Stimulating Readings to Spark New Ideas	169
Box 8.3	Techniques for Developing Visual Awareness	171
Box 8.4	Techniques for Developing an Ability to Hear and Listen	174
Box 8.5	Techniques for Enhancing the Perception of Taste	175
Box 8.6	Techniques to Enhance the Sensation of Touch	176

xx List of Boxes

Box 9.1	Guidelines for Spontaneity in the Classroom (Underhill, 2014b, p. 69)	185
Box 11.1	Guidelines for Making Teaching Materials Creative and Effective	220
Box 11.2	General Principles of Creativity to be Used in Materials Design	220

1

Introduction

Why did we decide to write this book? Because we believe passionately in the centrality of creativity in language education, in learning in general and in life itself. This is not to say that creativity is the only important factor in language learning—but without it the quality of the learning experience is seriously depleted. Creativity is not simply an optional add-on to what we do but is its very essence.

We wrote it too because creativity is so widely regarded as a desirable thing to have, in virtually every field. From fashion to architecture, from hand-held devices to gardening, from management to education, from computer games to interior design, everyone seems to believe that creativity is ‘a good thing’. It also comes top of Maslow’s pyramid and Bloom’s Taxonomy. And Ken Robinson proclaims that “creativity is the new literacy”. Unfortunately, when a term becomes a buzzword, its meaning is progressively blurred by its use in so many different contexts. Creativity shares this erosion of clarity with a whole range of other words in popular use: identity, culture, communicative, democracy, motivation, quality—and so on. So one of our aims in writing this book is to try to define a little more clearly just what creativity might mean.

This is particularly important when, on closer examination, the concept proves frustratingly difficult to define concisely and accurately. Creativity is something we readily recognise in concrete instances yet find a slippery customer when asked to define it in abstract terms. As Amabile (1996, p. 33), in one of the core texts on creativity, admits, “a clear and sufficiently detailed articulation of the creative process is not yet possible.” And she adds that “the nature of creativity is such that a complete and useful theory of creativity cannot be a single, simple theoretical statement” (p. 270). It is therefore perhaps preferable to regard creativity as a cluster of characteristics, along the lines of Wittgenstein’s (2001) notion of ‘family resemblances’. This means that here is a whole range of possible defining characteristics, but only some may be in play in any one instance.

For those in need of a clear definition, there now seems to be a consensus around Sternberg’s three key conditions for defining an act as creative: novelty, quality and relevance (Kaufman & Sternberg, 2010, p. xiii). The need for creative ideas also to be relevant is clearly a key criterion. Novelty alone is not enough.

In addition to outlining at least some of the defining traits of creativity, we will also aim to identify and bring together the factors which favour creativity, particularly in the domain of language education, not least the role of the teacher. These will underpin much of the material in Parts 2 and 3. Necessarily, we shall also draw attention to factors which constrain or discourage the exercise of creativity.

In Part 1, we shall review a variety of existing work in the field of creativity. In Chap. 2 we analyse work in general creativity theory and, from there in Chap. 3, pass to the field of education. Narrowing the field, in Chap. 4, we then review work in applied linguistics, then move on in Chap. 5 to language methodology and the role creativity has played in its development. Finally, in Chap. 6, we look at some concrete applications of creativity in published language teaching materials. In Part 1, then, there is a progressive narrowing of focus in two senses: from theoretical to practical, and from general to language-teaching specific. In this way we hope to winnow out the essential nature of creativity and the conditions which favour its development, as well as its potential benefits.

Along the way, we hope to explore the relationship between creativity and play, creativity and scientific and artistic invention and discovery, creativity and the unconscious, and creativity and learning.

Part 2 focuses on teachers. In Chap. 7, we first attempt to define what qualities characterise creative teachers, based on a number of surveys, including one we conducted ourselves. We then pass in Chap. 8 to a consideration of ways in which teachers can become more creative persons. Our argument is simply that unless teachers as individuals have themselves developed a creative mind-set, they are unlikely to be able to graft creativity on to their daily practice. Chapter 9 focuses on ways of helping teachers integrate more creative ideas into their teaching and developing their personal creativity both within and beyond training programmes. One key area for discussion is the need for teachers to develop strategies for dealing with the unpredictability which is at the heart of teaching through improvisation and spontaneity.

In Part 3 we first discuss, in Chap. 10, the basic prerequisites for bringing about a creative classroom. In Chap. 11, we offer some frameworks and principles for applying them to materials design. We refer back to some of the principles derived from Part 1. The focus here will be on designing materials which will stimulate creativity in the students, including the ways students themselves can contribute to generating their own materials.

Finally, in Part 4, we will consider how classroom research and inquiry might contribute to the greater application of creative ideas and practices. Chapter 12 discusses some general issues in creativity research. In Chap. 13, we review some of the existing research in English language teaching on creativity. Chapter 14 provides a network analysis of research, with some intriguing findings. Finally, in Chap. 15 we offer suggestions for some possible research projects.

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Part 1

Creativity: Concept to Product

2

Creativity Theory

In this chapter we shall examine the contributions of a wide variety of people who have thought deeply and long about the nature of creativity. Some are professional scholars and researchers, others more popular and accessible. The literature on creativity is now vast, so we have had to be very selective in our choice of work to discuss. We hope nonetheless to have included work which has made major contributions to our understanding of the complex phenomenon which is creativity.

Wallas and the Four-Stage Process

Among the earliest modern attempts to understand creativity were Wallas' (1926/2014) ideas. Basing his scheme on the earlier work of Helmholtz (1896), he outlined a four-stage process: Preparation, Incubation, Illumination and Verification. Given a 'problem', 'puzzle' or 'conceptual space', the creative mind first prepares itself by soaking up all the information available. Following this first Preparation stage, there is a stage of Incubation, in which the conscious mind stops thinking about the problem, leaving the unconscious to take over. In the third stage, Illumination,

a solution suddenly presents itself (if you're lucky!). In the final Verification stage, the conscious mind needs to check, clarify, elaborate on and present the insights gained. From Wallas, we can conclude that in the classroom too, there is a need to provide rich and copious information (input), and plenty of time to process it. Equally, there is a need to verify and assess what has been produced to see if it meets the condition of relevance.

Rhodes and the 4 Ps of Creativity

In 1961, Rhodes published the paper which has given rise to one of the most influential characterisations of creativity to date. In it he proposed four foci for creativity, namely person, process, press and product. “The term person, as used here, covers information about personality, intellect, temperament, physique, traits, habits, attitudes, self-concept, value systems, defence mechanisms, and behaviour” (Rhodes, 1961, p. 307). This has been highly productive in studies focusing on the characteristics of creative people as we shall see in the work of Csikszentmihalyi and Gardner below.

“The term process applies to motivation, perception, learning, thinking, and communication” (Rhodes, 1961, p. 308). Wallas’ (1926/2014) four-stage process described above is a good example of process. So too are Finke’s (1996) distinction between ‘chaotic’ and ‘ordered’ thinking, Boden’s (2001) combinational, exploratory and transformational thinking (see below), and the notion of idea generation and idea exploration phases in Finke, Ward and Smith (1992).

“The term press refers to the relationship between human beings and their environment” (Rhodes, 1961, p. 308). This notion and the word ‘press’ are rather common in the field of education. A number of creativity theorists have elaborated on the importance of the material and social environment as a stimulus or a constraint on creativity, including some we shall discuss below (Amabile, 1996).

“The word idea refers to a thought which has been communicated to other people in the form of words, paint, clay, metal, stone, fabric, or

other material. When an idea becomes embodied into tangible form it is called a product” (Rhodes, 1961, p. 309). In language teaching, the main products will be written samples of the language, though other forms of creative products are also included—oral performances, digital, multimedia and multimodal artefacts.

Koestler and Bisociation

Koestler, in *The act of creation* (1964), suggests that the creative process operates through the bisociation of two conceptual matrices, not normally found together. He believed that putting together two (or more) things that do not normally belong together can facilitate a sudden new insight. As an example of this, he explores in detail the way humour functions, since humour often works by setting up expectations within one matrix, then confounds these expectations by placing them in a different matrix. For example, in this joke,

One old woman is talking to another: ‘Do you know what happened the other day?’

‘No, what?’

‘I sent my husband Bill out into the garden to get a cabbage for lunch. And he fell down dead.’

‘So what did you do?’

‘I opened a tin of peas instead.’

Here two frames or matrices are brought together: lunch is a relatively minor matter; one’s husband’s death is deadly serious. We anticipate a serious response but instead, the wife reverts to the trivial frame of food. It is the surprise we experience in having our expectations overturned which triggers the laughter following a joke.

Puns work in a similar way, forcing us to see one meaning, then another, in much the same way that Gestalt pictures cause our eyes to interpret the same picture in two radically different ways as we shift from one framework to another. Puns and other word play are routinely used in advertising, journalism and politics.

One of the most famous political campaign posters of all time was the Conservative party's 1979 'Labour isn't working' slogan: a complex play on words. 'Labour' is a political party but the word 'labour' also means 'work'. So the slogan can be interpreted in several different ways:

The Labour party is not doing its job (isn't working hard enough) What the Labour party is doing as its work is not bringing results. If you vote for the Labour party you will be unemployed (Labour = not working).

Bisociation was also one of the key principles of the surrealist movement in art, photography, music, film, theatre and literature which flourished mainly in Paris in the 1920s and 1930s. Many of their experiments were based on the idea of bringing together two unrelated or incompatible frameworks in a random way to produce something new. Marcel Duchamp's toilet re-framed as a piece of found sculpture and Picasso's bull sculpture made by combining the handlebars (horns) and saddle of a bicycle (face) are cases in point. The surrealists emphasised the importance of the unconscious mind, especially dreams, of playing around and experimenting, of re-framing things and of seeing ordinary things from unusual viewpoints. They also explored the creative potential of constraints: one novelist (Perec, 1969) wrote an entire novel without using the letter 'e', for example. There are lessons we can learn from the surrealists too.

Koestler (1964) also explores the role of incubation—letting the mind loose to wander and freely associate, turning off conscious attention to the task and leaving room for the subconscious to do its work. He discusses the role of the subconscious and unconscious mind, including the phenomenon of sleep, dreams and the hypnagogic state half way between sleeping and waking. He notes that visualisation is a powerful factor in 'seeing' solutions to complex problems, citing many scientific cases in support of this, such as Faraday visualising electrical lines of force, or Kekule visualising the benzene molecule as a snake eating its own tail (the legendary Uroboros).

He emphasises the role of re-framing a problem or phenomenon—that is, seeing something familiar in a new way. "The originality of genius...consists in shifts of attention to aspects previously ignored; in

seeing appearances in a new light, in discovering new relations and correspondences” (Koestler, 1964, p. 392). He notes that conventional thinking comes in the way of such creative re-framing. We tend to accept too readily that what is habitual is correct and normal. Hence there is a tension between originality and convention: “The symbol of creativity is the magic wand which Moses used to make water come out of the rock; its reverse is the faulty yardstick which turns everything it touches into dust” (Koestler, 1964, p. 409).

Koestler’s (1964) book is now somewhat dated but many of the ideas it sets out recur in later literature and continue to be relevant. Some of these ideas can be put to use in the classroom through applying the random principle (see below) to create new and unexpected connections, using the re-framing principle, and free association of words and images.

Boden and Conceptual Spaces

In contrast to Koestler (1964), Boden (1992) takes an AI (artificial intelligence) approach to investigating creativity. She asks what a computer would need to do to replicate human thought processes, and in particular whether a computer could demonstrate intuition. (This has recently been demonstrated by the Go competition in which a computer beat a champion human player.) Her focus on AI, however, need concern us only insofar as it offers insights into the creative processes which humans engage with. She refers to the self-organising properties of complex, generative systems through processes such as parallel distributed processing. For her, creativity arises from the systematic exploration of a conceptual space or domain (e.g. mathematical, musical, linguistic). She draws attention to the importance of constraints in this process. “Far from being the antithesis of creativity, constraints on thinking are what make it possible” (Boden, 1992, p. 82). Chaos theory (Gleick, 1987) tends to support her ideas. We need a rich and varied ‘soup’ inside the conceptual bowl to increase the possibility of creative collisions and the release of new flavours. Boden’s (1992) approach is richly suggestive for language acquisition, materials writing and for teaching, in that all are rooted in complex,

self-organising systems. The relationship between language acquisition and chaos theory is explored in depth in Ellis and Larsen-Freeman (2009). And Thornbury (2001) makes reference to language/grammar emerging from the whirlpool of input.

Box 2.1: Conceptual Spaces and Creative Processes

Boden (1992) makes much use of the idea of 'conceptual spaces' within which ideas are manipulated and tried out, taking account of contextual constraints, until a creative 'solution' to the 'problem' or issue in question is found. When thinking about this issue, my mind was almost saturated with Boden, yet I could not see a neat way of making these ideas clear to a reader unfamiliar with them. This is a brief personal account of how I 'solved' one creative problem at the micro level (the limerick) and simultaneously found what I hope is a solution to the macro problem above (how to explain conceptual spaces).

Boden (1992) refers at one point to what happens inside the brain when we are asked to complete a limerick starting with a given first line. In this case:

There was a young lady from Brighton.

Having been re-reading Boden's book *The creative mind* (1992) for much of the day, I went to bed at midnight. I woke at 04.30, turned on BBC 3's *Through the Night* to a low volume. This programme plays classical music all night. I then lay and allowed my brain to ramble across the limerick problem set by Boden.

Because I have read many limericks and even written a few, I was subconsciously aware of the contextual constraints: there are five lines, the rhyme scheme has to be AABBA, the lines have to scan—lines 1, 2 and 5 have 3 stresses, lines 3 and 4 have 2 stresses. Additionally, the content has to be humorous, and preferably contain sexual or scatological images. 'Clean' limericks are not half as much fun as 'dirty' ones. In fact, they would hardly qualify as limericks at all.

In my hypnagogic state, half way between sleeping and waking, with the music playing softly as a background, I let my brain play with many possibilities for completing the limerick. I could even visualise the limerick in a room with all the possibilities flying around it like butterflies. The brain automatically engages with the content suggested by different rhyming words, compares them, makes choices among them by induction, finds new associations between ideas, makes new analogies, and is constantly sifting and re-combining ideas until there is some kind of closure or fit.

This is a summary of just some of the ideas (there were many more than I have listed) which went through my head:

*There was a young lady from Brighton / Who sometimes wore clothes that would frighten/ but what about the last line? Tighten? Mm. Let's try another one. Who loved to have something to bite on/ So when her male chum/Presented his bum/ but what about the last line again? She sank her teeth into...into what? Doesn't work. Let's try, Who wanted her buttocks to tighten/ Because when she was viewed/ Standing there in the nude/People said ...No. Never mind. Let's just listen to the music for a bit. Who used her new sofa to fight on? No, I can't see where that one would go ... Who always made love with the light on. That's better. So... She explained to her chum/ When I want to come... Now that last line again... Without light I think I'd be frightened. OK but I don't like the extra'd' on the end of 'frighten'. Lighten? Tighten? Brighten? Sight on? How about 'heighten'? With the light on my responses heighten? Still a bit awkward. Maybe, With the light on my sensations heighten. Better rhythmic fit – I think that's it. I like the repetition of the sound [ai] in the same line – *light on* and *heighten*. Let's just check if it scans.*

Here we go:

*There was a young lady from Brighton,
Who always made love with the light on.
She explained to her chum,
'When I want to come,
With the light on, my sensations heighten.'*

When I woke up it was 08.00. And I immediately realised that the solution to the macro problem was to do what I have just done, namely to report my mental experiences in solving the micro problem. They illustrate how a conceptual space—the limerick form—is like a room in the brain where multiple alternatives can be played around with within a set of formal and content-driven constraints. To do this the brain has already to be primed with a lot of information and experience about the problem in hand. You can't write a limerick if you don't know what a limerick is. It then needs time to juggle possibilities in an unhurried, relaxed way till it recognises a 'fit'. Perhaps music can facilitate this process by helping to relax the brain and to allow unrelated ideas to fuse. Visualisation almost certainly helps too.

There is also a link here to one of the popular characterisations of the dimensions of creativity referred to by Csikszentmihalyi and Gardner (among others). They depict it as a triangle between *Individual talent*, the specialist *Domain* in which it operates, and the *Field*, comprising the other

workers in the same domain. In my experience above, clearly I was exercising my individual talent (such as it is), in the Domain of poetry (subdomain, limericks) and with consideration of the expectations and judgements my readers in the Field.

Of course, writing a limerick is a relatively trivial instance of creative thinking—but I believe the process would be similar with more serious ‘problem spaces’. Readers may care to try this out with a ‘conceptual space’ of their own choosing?

Boden’s (1992) text is dense and often obscure but there is no need to follow her into the thickets of her arguments in favour of an AI approach—and in any case, the AI programmes she refers to have long since been superseded. The following points are the most relevant for our purposes here:

Box 2.2: Boden and Creativity

- Ideas do not come from nowhere. “Insights do not come from the gods – and they do not come from nowhere either” (p. 18);
- They often come to us when we are thinking about something else;
- They are often formed on the basis of extensive ‘tacit knowledge’ (Polanyi, 1966/2009). This is the kind of expert knowledge acquired from long familiarity with a given domain or field;
- There is great value in ‘playing around’; “nothing is more natural than ‘playing around’ to gauge the potential – and the limits – of a given way of thinking” (Boden, 1992, p. 46). “creativity has much in common with play” (p. 46). Another term for playing around is ‘exploration’. The links between creativity and play are dealt with in more detail below (Bateson & Martin, 2013);
- Constraints are important. “Constraints on thinking do not merely constrain, but also make certain thoughts – certain mental structures – possible” (Boden, 1992, p. 46). “a creative genre can be based on precisely specifiable rules” (p. 77). We can think of constraints as the nozzle which shapes the fluidity of thought and gives it force;
- Chance is important but we also need the specialist knowledge and experience which will make it possible to recognise it. “chance with judgment can give us creativity; chance alone, certainly not” (p. 221). Or, in Pasteur’s words, “Fortune favours the prepared mind”;

- Heuristics, such as ‘consider the negative’ are a powerful way of generating ideas. They can be used “to prune the search tree. That is, they save the problem-solver from visiting every point on the tree, by selectively ignoring parts of it” (p. 78);
- So too are analogy and metaphor. But to function effectively, they need to be based on experience, information and expertise in the domain. Both analogy and metaphor are often linked with visual and spatial mental representations;
- Induction, involving the ability rapidly to compare, analyse and select relevant items is also a key process. This is one thing AI programmes are designed to do;
- Semantic networks of associations are another way of generating ideas, where one item links to another in a potentially endless chain of associated ideas;
- Scripts (Schank & Abelson, 1977) and frames are helpful in organising semantic networks;
- Chaos theory (Gleick, 1987) can offer suggestive directions for thinking about creativity—and about teaching, in particular the way that small events can have disproportionately large consequences;
- Mere novelty is not the same as creativity. “Even everyday P-creativity requires that systematic rule-breaking and rule-bending be done in domain-relevant ways” (Boden, 1992, p. 254);
- Everyone has the potential to be creative. “creativity ... based in ordinary abilities we all share, and in practised expertise to which we can all aspire” (p. 256).

Boden (2001) later developed her threefold typology of creativity processes: combinatorial, exploratory and transformational. *Combinatorial* creativity consists of associating old ideas to create something new. Using the analogy of cooking, an example would be fusion cuisine, where two or more distinctive cuisines are blended into a distinctive new one. *Exploratory* creativity is about exploring the conceptual space within the existing system of rules to find new arrangements. Using cooking again, it could involve experimenting with longer or shorter cooking times, or with the temperature at which dishes are served (such as cold soup, or fried ice cream) or new ingredients in old dishes (such as vegetarian cutlets). *Transformational* creativity involves a wholesale alteration of rules to bring about a whole new perspective. For example, the invention of the microwave oven transformed the way food can be prepared, or how dry-freezing food items transformed cooking practices.

Csikszentmihalyi: Individual Talent, Domains and Fields

Csikszentmihalyi (1990) takes a multidimensional view of creativity as an interaction between *individual* talent, operating in a particular *domain* or discipline, and judged by experts in that *field*. He also has interesting observations about the role of ‘flow’ in creativity: the state of ‘effortless effort’ in which everything seems to come together in a flow of seamless creative energy (Csikszentmihalyi, 1990). This can be related to the earlier work of Craik and Lockhart (1972) on ‘depth of processing’, which demonstrated how we retain better what we have acquired through more engaging, complex and psychologically demanding processes.

Csikszentmihalyi (1996) further explores creativity through analysing interviews with 91 exceptional individuals, and isolates ten characteristics of creative individuals. He concludes that creative people live highly complex lives, which manage to combine apparently conflicting characteristics:

Box 2.3: Csikszentmihalyi’s Characteristics of Creative Individuals

- They are possessed of high levels of energy, yet manage to switch off for rest and reflection. Paradoxically, it is in these periods of rest that many creative ideas are born.
- They are both smart (i.e. highly intelligent) but also naïve, in the sense that they see things in a child-like way, which brings them to question what is ‘obvious’ to others.
- They are highly playful (see also Bateson and Martin (2013), below) but also demonstrate incredible discipline and persistence in working through the practical implications of their creative insights. One is reminded of Picasso’s declaration, “Je ne cherche pas. Je trouve” (I don’t search, I find), highlighting the role of ‘inspiration’—and its apparent contradiction in, “Genius is 1% inspiration and 99% perspiration” (variously attributed to Edison and Einstein), which emphasises the role of discipline and effort. The paradoxical interplay of freedom with constraints is a recurring theme in creativity studies.
- They demonstrate a high degree of imagination and fantasy combined with a hard-headed sense of reality: “creative people are original without being bizarre” (Csikszentmihalyi, 1996, p. 63).

- They seem to combine traits associated with both extroversion and introversion. They typically need both the society of their peers and periods of solitude for reflection. The importance of introvert traits has been emphasised by Cain (2012) as a counter-weight to the importance current society appears to accord extroversion ('the man of action'). These include "openness to experience ('thinker, dreamer'), conscientiousness ('idealist') and neuroticism ('shy individual')" (Csikszentmihalyi, 1996, p. 270). The issue of creativity and neurosis is considered below in the review of Storr's *The dynamics of creation* (1991).
- They are both aware of the importance of their work, and simultaneously humble and deprecating about it. Creativity does not arise from arrogance. In those who live long enough, there is a shift from ambition in early life to altruism later.
- Psychologically, they display both 'masculine' and 'feminine' personality traits: the women becoming more assertive and analytical, the men more gentle and intuitive than their everyday counterparts.
- They seem able to combine a respect for tradition with the tendency to rebel against it. Clearly, any meaningful revolt can take place only against a thorough familiarity with the domain. This underlines the need for a firm knowledge base from which to experiment. Creativity does not emerge from ignorance.
- They combine a passion for their creative endeavours with a cool objectivity—a capacity to evaluate realistically what they have created. This implies the ability to discard what is deemed unsatisfactory and start again.
- And they exhibit a high level of acceptance of pain and difficulty, combined with the extreme joyfulness of the creative process. No pain, no gain.

These characteristics will prove useful as a reference point when we consider the development of teacher creativity in Part 2.

In terms of the creative process, Csikszentmihalyi broadly follows Wallas' four stages but adds a fifth stage, which he calls Elaboration. What this means is that after something has been created, it needs to be applied. (See also Bateson and Martin (2013) below for their distinction between creativity—having the idea, and innovation—applying it.) He also reiterates Boden's (1992) point that problem-finding is more important than problem-solving which chimes with Koestler's observation that "technical virtuosity is one thing, creative originality another" (1964, p. 393).