Creativity in the primary curriculum

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Creativity in the Primary Curriculum

Teresa Grainger and Jonathan Barnes

The class was full of focused learners, whose voices expressed urgency and interest as they collaborated in groups to create three-dimensional representations of two Egyptian gods. Earlier that morning at Hackleton Primary School, Northampton, these six and seven year olds had discussed the many options available to them, generated and listened to each other’s ideas and were now turning their idea into action. They operated independently of their teacher, finding resources in their own room or in others, monitoring their achievements in the time available (they knew they would have another session to complete this challenge), and constantly evaluating and discussing their work. The variety generated was considerable, new ideas also emerged during the creative process and these too were celebrated and critically appraised. Later in this half term’s unit of work on the Egyptians, they wrote up the instructions for making these images and added these to the huge class book produced, which also contained DVDs of the various cross-curricula activities undertaken and showed the total transformation of the classroom into an Egyptian museum. However, their ability to recall, explain, and discuss the finer points of this creatively planned project two terms later was an even richer testimony to the excellence and enjoyment achieved by all.

In this school as in many others recently, the staff have been working to adopt a more creative approach to the primary curriculum and have placed creative teaching and learning at the heart of their practice. Influenced by a developed understanding of the nature of creativity, by government documents which encourage a more flexible stance (DfES, 2003), by HMI reports which highlight the significant achievements in creative schools (OfSTED, 2003) and by involvement in creative partnerships of all kinds, teachers are increasingly finding more innovative ways forward. Yet there is a danger that the development of creativity is viewed as merely as the latest bandwagon or yet another thing to add to schools’ lists of priorities.

Working with an overloaded curriculum in a culture of accountability, you are no doubt already aware that the backwash of the assessment system markedly affects classroom practice. Such pressure can limit opportunities for creative endeavour and may tempt you to stay within the safe boundaries of the known, offering a curriculum largely framed and developed by others, rather than one framed and developed by you in response to your children’s needs and interests. Recognising the tension between the incessant drive for measurable standards and the development of creative teaching is a good starting point, but finding the energy and enterprise to respond flexibly to this reality is the real challenge. In order to do so, you need to be convinced that creativity has an important role to play in education and realise that you can contribute to this personally and professionally. We hope you will choose to teach creatively and for creativity, and create the conditions in which creativity can thrive.
By the end of this chapter you should have

- An increased understanding about the nature of creativity
- An awareness of some of the features of creative primary teachers
- A wider understanding of teaching for creativity
- Some understanding of how to plan for creative learning

**Creativity**

In a world dominated by technological innovations, creativity is a critical component; human skills and people’s powers of creativity and imagination are key resources in a knowledge driven economy (Robinson, 2000,). As social structures continue to change, the ability to live with uncertainty and deal with complexity is essential and organisations and governments worldwide are now more concerned than ever to promote creativity. It develops the kinds of skills that young people will need in a rapidly changing and uncertain world and it can improve their self-esteem, motivation and achievement. Creativity is not confined to special people or to particular arts based activities, nor is it undisciplined play, it is however, notoriously difficult to define. It has been described as ‘a state of mind in which all our intelligences are working together’…involving ‘seeing, thinking and innovating’ (Craft, 2000, p.38) and as ‘imaginative activity fashioned so as to produce outcomes that are both original and of value’ (NACCCE, 1999, p.29). Creativity is possible wherever human intelligence is actively engaged and is an essential part of an effective education; it includes all curriculum subjects and all children, teachers and others working in primary education. Indeed it can be demonstrated by anyone in any aspect of life, throughout life.

It is useful to distinguish between high creativity and ordinary creativity, between ‘Big C Creativity’, (exemplified in some of Gardner’s (1993) studies of highly creative individuals, such as Picasso, Einstein and Freud) and ‘little c creativity’ which Craft (2000; 2001) highlights. This latter form focuses on the individual agency and resourcefulness of ordinary people to innovate and take action. Csikszentmihalyi suggests that each of us is born with two contradictory sets of instructions; a conservative tendency and an expansive tendency, but warns us that …

> If too few opportunities for curiosity are available, if too many obstacles are put in the way of risk and exploration, the motivation to engage in creative behaviour is easily extinguished.

(Csikszentmihalyi, 1996, p.11)

In the context of the classroom, developing opportunities for children to ‘possibility think’ their way forwards is therefore critical. This will involve you in immersing the class in an issue or subject and helping them ask questions, take risks, be imaginative and playfully explore options as well as innovate (Craft, 2001). At the core of such creative endeavour is the child’s self determination and agency as an active thinker to find and solve problems. From this perspective, creativity is not seen as an event or a product, (although it may involve either or both), but a process or state of mind involving the serious play of ideas and possibilities. This generative, problem finding/ problem solving process may involve rational and non rational thought and may be fed by the intuitive, by daydreaming and pondering as...
well as the application of knowledge and skills. In order to be creative children do need considerable knowledge in a domain, but 'creativity and knowledge are two sides of the same psychological coin, not opposing forces' (Boden, 2001, p.102) and imaginatively feed each other.

Imaginative activity can take many forms; it draws on a more varied range of human functioning than linear, logical and rational patterns of behaviour (Claxton, 1997). It is essentially generative and may include physical, social, reflective, musical, aural or visual thinking, involving children in activities which produce new and unusual connections between ideas, domains, processes and materials. When children and their teachers step outside the boundaries of predictability and are physically engaged, learning through their minds and bodies, eyes and ears, this provides a balance to the sedentary and too often abstract nature of school education. In less conventional contexts, new insights and connections may be made through analogy and metaphor. The two modes of creative thinking: the ‘imaginative-generative’ mode which produces outcomes, and the ‘critical-evaluative’ mode which involves consideration of originality and value (NACCCE, 1999, p.30), both operate in close interrelationship and need to be consciously developed.

Claxton and Lucas (2004) suggest that the process of creativity involves the ability to move freely between the different layers of our memories to find solutions to problems. They propose a metaphor of the mind based on the concept of three layers of memory which impact upon our thinking: an upper layer or habit map - a map of repeated patterns of behaviour, an inner layer comprised of individual conscious and unconscious memories, and an archetypal layer laid down by our genes. Others see the creative mind as one which looks for unexpected likenesses and connections between disparate domains (Koestler, 1964, Bronowski, 1976), however, Csikszentmihalyi (1996) suggests that creativity does not happen inside people’s heads, but in the interaction between an individual’s thoughts and the socio-cultural context. He proposes it is a product of societal judgements which involves interaction amongst a domain, a person and a field.

It is clear that creativity is not bound to particular subjects indeed it depends in part on interactions between feeling and thinking across different subject boundaries and ideas. It also depends upon a climate of trust, respect and support, an environment in which individual agency and self determination are fostered and ideas and interests are valued, discussed and celebrated. Yet we have all experienced schools that fail to teach the pleasure and excitement to be found in science or mathematics for example, or who let routines and timetables, subject boundaries and decontextualised knowledge dominate the daily diet of the young. In such sterile environments when formulae for learning are relied upon and curriculum packages are delivered, children’s ability to make connections and to imagine alternatives is markedly reduced. So too is their capacity for curiosity, for enquiry and for creativity itself.

**Task One**

*Relevance, ownership and control of learning, as well as innovation, have all been identified as key issues in creative learning in children (Jeffrey and Woods, 2003). Imaginative approaches involve individuals and groups in initiating questions and lines of*
enquiry so that they are more in charge of their work, such collaboration and interaction helps to develop a greater sense of autonomy in the events which unfold.

To what extent have you observed children taking control of their learning, making choice, and demonstrating ownership of their own learning? Think of some examples and share these in small groups. To what extent was the work also relevant to the children? Were they emotionally or imaginatively engaged, building on areas of interest, maintaining their individuality and sharing ideas with one another? If you have seen little evidence of these issues, consider how you could offer more opportunity for relevance, ownership and control of learning in the classroom.

**Creative Teaching and Teaching for Creativity**

The distinction between creative teachers and teaching for creativity is a helpful one in that it is possible to imagine a creative teacher who personally enters creatively into the classroom context, yet fails to provide for children’s creative learning. Responsible creative professionals are not necessarily flamboyant performers, but teachers who use a range of approaches to create the conditions in which the creativity of others can flourish. Creative teachers also make use of their own creativity, not just to interest and engage the learners, but also to promote new thinking and learning. Their own creative assurance enables them to offer the children stronger scaffolds and spaces for emotional and intellectual growth.

Research undertaken in an HE context, with tutors teaching music, geography and English, suggests that creative teaching is a complex art form, a veritable ‘cocktail party’ (Grainger, Barnes and Scoffham, 2004). The host gathers the ingredients (the session content), and mixes them playfully and skilfully (the teaching style), in order to facilitate a creative party that is enjoyable and worthwhile (the learning experience). Whilst no formula was, or could be established for creative teaching, some of the ingredients for personally mixing a creative cocktail were identified, albeit tentatively, from this work. It is clear however, that the elements are not in themselves necessarily creative, but that the action of creatively shaking and stirring the ingredients and the individual experience of those attending are critical if the ‘cocktail party’ is to be successful. The intention to provoke creativity appeared to be an important feature in this work.

**FIGURE 1 COCKTAIL PICTURE**

The session content, (the cocktail ingredients), included the themes of placing current trends in a wider context and extensive use of metaphor, analogy and personal anecdotes to make connections. In the category of teaching style, (the mixing of the cocktail), themes identified included multi modal pedagogic practices, pace, humour, the confidence of the tutors and their ability to inspire and value the students. In relation to the learning experience, (the cocktail party) themes included involving the students affectively and physically and challenging them to engage and reflect. Together these represent some of the critical features of creative teachers and creative teaching which combine to support new thinking.

**Task Two**

Consider the metaphor of teaching as cocktail party for a moment. In what ways do you think this metaphor captures the vitality of teaching, the dynamic interplay between teachers, children and the resources available? Select one or two of the
features, humour or use of metaphor or personal anecdotes for example, do you make extensive use of either of these features? Remember as the research indicates, such features need to be employed with others in a flexible experiential encounter at the ‘cocktail party’.

Consider your current tutors or previous teachers. Which are/were the most creative teachers? Do they/did they create successful cocktail parties in which you felt valued and were given the space to engage fully, to take risks, make connections and develop deep learning? How do/did they achieve this?

Personal characteristics of creative teachers
It is difficult to identify with any certainty the personal characteristics of creative teachers, although common elements observed in research studies and commented upon by writers in the field (e.g. Jones and Wyse 2004; Craft 2003; Beetlestone, 1998; Csikszentmihalyi, 1996; Fryer 1996) include the following:

- Enthusiasm, passion and commitment
- Risk taking
- A clear set of personal values
- Willingness to be intuitive and/or introspective
- Gregarious and introspective
- A deep curiosity or questioning stance
- Awareness of self as a creative being

This list encompasses many of the personal qualities you might expect in any good teacher, except perhaps the last. As Sternberg (1999) suggests, creative teachers are creative role models themselves, such professionals continue to be self-motivated learners, who value the creative dimensions of their own lives and make connections between their personal responses to experience and their teaching. In addition, a clear set of values, reflecting fair-mindedness, openness to evidence, a desire for clarity, and respect for others are important and among the attitudinal qualities embedded in creative teaching. So too is a commitment to inclusion, a belief in human rights and equality. Such attitudes and values have a critical role in creative teaching and are perhaps best taught by example.

Features of a creative pedagogical stance
The intention to promote creativity is fundamental; you will need to place children in situations which help them make connections and then build on these, creating a climate of enquiry, of ideas and of sensible risk-taking. You will also need to plan to develop their independence and ability to work as community. There are a number of features of a creative pedagogical stance which you may want to consider in relation to your teaching and observation of other creative professionals.

A learner centred ethos
Creative teachers tend to place the learners above the curriculum and combine a positive disposition towards creativity and person-centred teaching which actively promotes pupils who learn and think for themselves (Craft, 2000). Relaxed, trusting educator – learner relationships exist in creative classrooms and the role of the affect and children’s feelings play a central role in learning in such contexts. A creative ethos will also involve you showing patience and openness and reinforcing children’s creative behaviour, celebrating difference, diversity and innovation as well as learning to tolerate mild or polite rebellion (Gardner, 1999). If
you adopt such a person centred orientation you will be shaping the children’s self esteem and enhancing their intrinsic motivation and agency.

**A questioning stance** Creativity involves asking and attempting to answer real questions and the creative teacher is seen by many writers as one who uses open questions and who promotes speculation in the classroom encouraging deeper understanding and lateral thinking. In the context of creative teaching, both teachers and children need to be involved in this process of imaginative thinking, encompassing the generation of challenging and unusual questions and the creation of possible responses (Cremin, 2003).

**Creating space, time and freedom to make connections** Creativity requires space, time and a degree of freedom, deep immersion in an area or activity allows options to remain open, and persistence and follow through to develop. Conceptual space allows children to converse, challenge and negotiate meanings and possibilities together. In recent Primary National Strategy research, teachers worked with more extended and coherent units of work, and through employing both film and drama raised both standards and boys’ creativity in writing (Bearne et al., 2004).

**Employing multi modal teaching approaches** A variety of multi-modal teaching approaches and frequent switching between modes in a play like and spontaneous manner supports creative learning. The diversity of pattern, rhythm and pace used by creative teachers is particularly marked (e.g. Woods, 1995) as is their use of informed intuition. As you teach, opportunities will arise to use your intuition and move from the security of the known, give yourself permission to go beyond the ‘script’ you have planned, allow the children to take the initiative and lead you. Afterwards consider the effect of this more responsive approach, did the children exert their autonomy, were they more fully engaged and intrinsically motivated?

**Prompting full engagement, ownership and ongoing reflection** In studying an area in depth children should experience both explicit instruction and space for exploration and discovery. Try to provide opportunities for choice and be prepared to spend some time developing their self management skills so they are able to operate independently. Their full engagement can be prompted through appealing to their own interests and passions, by involving them in imaginative experiences, and by connecting their learning to their lives (Grainger et al., 2005). You will find that as the children realise their questions make a difference, they will begin to ask more, ponder longer and reflect upon other ways to achieve a task or represent their learning. A semi constant oscillation between engagement and reflection will become noticeable in the classroom as you work to refine, reshape and improve learning. The ability to give and receive criticism is an essential part of creativity and you will need to encourage evaluation through supportive and honest feedback.

**Modelling risk taking and enabling the children to take risks too** The ability to tolerate ambiguity is an example of the ‘confident uncertainty’ to which Claxton (1998) refers when discussing creative teachers, those who combine subject and pedagogical knowledge, but also leave space for uncertainty and the unknown. You will gain in confidence through increased subject knowledge, through experience and reflection, but your assurance will also grow through taking risks and having a go at
expressing yourself. Risk taking is an integral element of creativity, and one which you will want to model and foster. The children too will need to feel supported as they take risks in safe non-judgemental contexts.

To be a creative practitioner you will need more than a working knowledge of prescribed curriculum requirements, you will need a secure pedagogical understanding and strong subject knowledge, supported by a passionate belief in the potential of creative teaching to engage, inspire and educate. Such teaching depends in the last analysis upon the human interaction between teacher and student and is also influenced by the environment.

**Creating Environments of Possibility**

You may have been to a school where creativity is planned for, where there is a clear sense of shared values and often a real buzz of purposeful and exciting activity. Such schools have a distinctive character which impacts upon general behaviour, relationships, physical environment and curriculum. An ethos which values creativity will, according to most definitions, promote originality and the use of the imagination, and encourage an adventurous attitude to life and learning. In such environments of possibility, packed with ideas and experiences, resources and choices, as well as time for relaxation and rumination, physical, conceptual and emotional space is offered.

**The social and emotional environment**

Taking creative risks and moving forward in learning is heavily dependent upon an atmosphere of genuine acceptance and security. As Halpin notes,

‘…pupils( should be able to ) feel confident enough to take risks and learn from failure instead of being branded by it. …they should react positively to self help questions like; ‘Am I safe here?’ ‘Do I belong?’ ‘Can I count on others to support me?’

(Halpin, 2003, p111)

The sense of well-being which offers a positive answer to these questions is promoted in creative schools by respecting individuals and involving children in activities which affirm both their individuality and their common humanity. Children’s well-being now forms an important part of school self-evaluation (OFSTED, 2004), school inspection requirements (DfES, 2005) and the guidance related to the Children Act (HM Gov. 2005). A secure ethos in the context of the creative school may however display apparently contradictory characteristics. It is likely to be both:

- highly active and relaxed
- supportive and challenging
- confident and speculative
- playful and serious
- focused and fuzzy
- individualistic and communal
- understood personally and owned by all
- non-competitive and ambitious
Since Plato many have argued that there are links between involvement in creative acts and a general sense of well being. More recent research in cognitive neuroscience (Damasio, 2003) and positive psychology (Seligman, 2004; Fredrickson, 2003) has suggested that simply feeling ‘happy’ promotes optimum conditions in both mind and body, and also ensures constructive and secure relationships. This has led some to make arguments for a thorough re-evaluation of curricula, in favour of educational programmes which offer frequent, planned and progressive creative opportunities across every discipline (Gardner, 1999, Barnes, 2005).

The physical environment
The physical environment in a school which promotes creativity is likely to celebrate achievement and individuality. Jeffrey and Woods (2003) have shown it can affect every aspect of the environment which is not only stimulating, but is also a valuable teaching resource. Children’s views on this are important and deserve to be taken into account (Burke and Grosvenor, 2003). Recent projects have shown how creative thinking in the context of focused work on improving the school building, grounds or local areas, can achieve major citizenship objectives and high level arts and literacy targets in an atmosphere of genuine support and community concern (Barnes, 2005).

Active modes of learning and problem solving approaches which include independent investigation require accessible resources of various kinds, so the richer and more multi-faceted range you can offer the better. This supports genuine choice, speculation and experimentation, happy accidents and flexibility. As well as good quality equipment and resources for each discipline, schools may want to collect the following:

- objects (like; crockery, etchings, machines and containers) chosen to suggest links between subjects
- games and toys (commercial or home made) to add amusement, challenge and variety
- items (like; religious objects, fabrics, art and craft, foods, plants) representing the range of cultures in school and society
- tools and artefacts (e.g.; mystery objects from the local museum service) to encourage deeper thinking
- creative professionals (like; hairdressers, architects, artists, town planners, website designers, advertisers, window dressers) from the community willing to work with pupils
- tools (such as those used by Geography. Maths, ICT, Science and D/T) which promote the use of hands and bodies
- products which reflect current technologies
- communications technologies to aid understanding and engagement.

Task Three
In groups of four, use the classroom plan below and 16 stickers to represent desks and 29 red ‘blobs’ to represent children and plan a classroom designed to promote creativity. You might want to consider the following issues:

- How are you going to make fullest use of the view?
- Where will resources be stored?
- How are you going to group the desks for maximum flexibility?
- Will you need a teacher’s desk?
• How can you make fullest use of the door to the playground?
• How are you going to create themed activity areas?
• How can the room design promote connection making?
• How are the display spaces going to be used?
• Do you need to use all the tables?
• How can you cater for the child who likes to be on their own sometimes?

FIGURE 2 DIAGRAM OF CLASSROOM

Planning for creativity
The NC, with its reminders about linking subjects and programmes of study is open to imaginative interpretation, and can support cross curricular planning and creative practice across Foundation and KS1 and 2. Recent documentation from the government in England clearly promotes a broader approach to curriculum planning, supporting not only excellence and enjoyment, but also transferable learning, creativity and confidence. Such a holistic approach needs to build on insights from research if it is to ensure progression and raise standards.

Ten suggestions from research

• Create a positive, secure and comfortable atmosphere (Bentley and Seltzer, 1999)
• Ensure a range of practical, creative and analytical activities for each child (Sternberg, 1997)
• Have clear goals and individualised targets a little above current ability (Csikszentmihalyi, 2002)
• Use a manageable number of relevant subjects to throw light on the topic (Gardner, 1999)
• Build emotionally significant links to the life of each child and engage all the senses and use tools and objects to support and promote thinking (Damasio, 2003)
• Involve developmentally appropriate progression in skills, knowledge and understanding (Thompson et al. 2004)
• Refer to a wider framework which includes concepts, content and attitudes (Grainger, Barnes and Scoffham, 2004)
• Emphasise individual and cooperative thinking and learning throughout (Bruner, 1996; Craft, 2000)
• Provide supportive assessment procedures which build security and include time and tools for reflection (Adey and Shayer, 2002)
• Offer a wide range of opportunities to discover engagement, enjoyment and other positive emotions (Fredrickson, 2000, 2003)

Key Stage 1 teachers have generally retained a cross curricular element in their planning; those in Key Stage 2 are now considering the advantages of more creative curriculum approaches. Many now plan coherent learning experiences where ‘school subjects [are seen as] resources in the construction of the curriculum, rather than determinants of its overall structure and emphasis’ (Halpin, 2003, p. 114). They plan in teams and maximise the relevance of their curriculum to the local community and
the children’s lives, using the rich physical, human and cultural resources of their locality and preparing significant shared experiences for children to interpret in individualised ways.

Teachers are beginning to work from the Key Skills and the thinking skills at the front of the NC, perceiving these to offer the permission and structure needed to support medium term planning for creativity. Their challenge, like yours, is to take account of individual differences in learning, help each child become a self-regulated learner, and ensure appropriate coverage of subject specific content. The curriculum map (figure 3) is one attempt to balance these demands. As a medium term plan it seeks to combine guidance from research with the detailed expectations of the NC. It builds upon the Key Skills, namely:

- Communication
- Application of number
- Information Technology
- Working with others
- Improving own learning and performance
- Problem solving

It highlights the thinking skills identified in the NC, namely:

- Information processing
- Reasoning
- Enquiry
- Creative thinking
- Evaluation

It also takes into account other cross curricular aspects, such as:

- financial capability
- enterprise education
- education for sustainable development
- PSHE/Citizenship
- statement of values

FIGURE 3 THE CURRICULUM MAP IN HERE

**Integrating the Key Skills**

Classrooms in which the key skills are explored through the subjects are characterised by activity, security, inclusivity and the equal treatment of different ways of understanding. At different times there could be different centres within the room where children can develop an idea musically, physically, spatially, socially, or practically on their own or in groups. Allowing children to work on a given theme in their areas of strength promotes connections as different groups make and share links between the subject disciplines and real life experience.

**Communication** Reading, writing, speaking and listening should be encouraged in meaningful contexts across all school experience, but there are many other means of communication. We communicate multimodally through play, pictures and symbols, music, number, dance and mime, in facial expressions and body language. Schools can maximise upon alternative modes of communication by offering children different ways to present their learning, understanding in PE may be better communicated in movement for example or in history by an exhibition of artefacts.
Application of number

Number is one of the languages through which children can understand curriculum themes. In topics centred on design/technology, art and PE they can practically apply concepts of weight, measurement, symmetry and balance. In geography and history, distance, graphs, statistics, scale and time are key to understanding the wider world. A theme illuminated by the perspectives of music, RE, MFL, English or Science may need number to help children understand sonic, spiritual, linguistic and natural patterns around them.

Information technology

The challenge is to ensure IT supports the progressive development of skills, knowledge and understanding across the curriculum. A class in rural Kent for example, used digital cameras to record significant aspects of their locality and classified these into four categories: ‘natural life’, ‘our historic environment’, ‘working in our village’ and ‘what’s changing?’ The development of their understanding could be traced in the discussions, selections and poster presentations which accompanied this activity. In other contexts, teachers use digital sound technology and the internet to provide children with opportunities to make new connections.

Working with others

Group work on real-life, curriculum-based challenges can help to develop emotional literacy. The capacity to relate, to empathise and experience both leadership and ‘followership’, as well as cope with disputes and disappointments are all evident in real group work where pupils need to co-operate fully in order to achieve their goals.

Improving own learning and performance

Reflection has been shown to make a marked influence on learning (Shayer and Adey, 2002). In general, questions like: ‘What do you think we are going to have to think about?’, ‘What could you do if you have problems?’, ‘How do you know that?’, ‘What might make this easier?’ How are we going to do this?’, ‘What might happen if…?’ and ‘Are there other ways this can be done?’ can stimulate creative thinking. But learning and performance are improved not just by thinking, but also by applying progressively more challenging subject skills to the topic.

Problem solving

If children are given authentic situations to interpret, real challenges to meet, and relevant contexts to work they will operate in ‘problem-solving’ mode and generate new understanding in the process (Perkins, 1992; 2000). A Reception class for example was taken to the beach and groups were set the task of describing to their French sister schools what the place was like, without words. The children discussed the problem, shared solutions and embarked upon drawing, collecting, recording sounds, taking photos and making music. On their return to school their next problem was how best to send their work to France.

Task Four

In groups plan a short field trip very near to a school you know. Generate four ‘problems’ which children might safely be faced with in this context. Suggest the skills which would be needed to approach these problems and activities designed to help solve them. Decide on the key skills and curriculum areas this activity would address.
In conclusion

Creative teaching is a collaborative enterprise which capitalises on the unexpected and variously involves engagement, reflection and transformation, patterned at such a rate as to invite and encourage a questioning stance and motivate self directed learning. Creative learning involves asking questions, exploring options and generating and appraising ideas as you take risks and imaginatively think your way forwards and make new or innovative connections. We trust you will choose to teach creatively and promote creativity through your planning, building in choice and autonomy, relevance, and purpose in an environment of possibility.

Further Reading

This is an inspiring read, practically based but informed by theory and research Anna Craft explores core principles and the different subjects and considers ways in which teachers can develop a more ‘creative mindset’ towards the curriculum and pedagogy. A breakthrough when it was published this book is both accessible and thought provoking.

This subject based handbook for teachers has a wealth of well tried and practical examples of creativity applied to geography. Chapters on ‘Young Geographers’, ‘Geography, creativity and place’, ‘Geography and the emotions’ and ‘Making geography fun,’ show how creative teaching and promoting creative thinking in children is central to a subject not usually thought of as being creative.

Halpin, D (2003) Hope and Education; The Role of the Utopian Imagination, London, RoutledgeFalmer
A very accessible, passionate but philosophically sound argument for putting the hope back into education. Professor Halpin concentrates on the need to change educators’ attitudes towards a more child centred, creative and culturally sensitive curriculum. In his mind establishing an ethos of security where no child feels ‘a loser’ is central to promoting creativity.

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<table>
<thead>
<tr>
<th>Theme:</th>
<th>Science</th>
<th>English</th>
<th>Geography</th>
<th>History</th>
<th>Mathematics</th>
<th>Modern Foreign Language</th>
<th>Music</th>
<th>Physical Education</th>
<th>Religious Education</th>
</tr>
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<tbody>
<tr>
<td>What's the problem? (Problem solving skills)</td>
<td>We want to find out more about mini beasts’ habitats, life cycles, food and how we can classify them.</td>
<td>We've got to work out the pros and cons of building a bypass around our village.</td>
<td>We have to prepare a introduction to our local area for the school website.</td>
<td>We have to make a history page for the school website.</td>
<td>We've got to present statistics about the local area for our project.</td>
<td>Designing a welcome page for visitors from other European countries.</td>
<td>Our film needs music which help people understand the life and wonder of tiny creatures.</td>
<td>We have to make a dance or movement on the theme of insects.</td>
<td>Thinking about the significance of the natural world.</td>
</tr>
<tr>
<td>How’s it going to help children’s learning (improving own learning)</td>
<td>Making and testing hypotheses</td>
<td>What would happen if...? Are there any other ways this can be done?” and “What will it be like when...?”</td>
<td>What do different kinds of people think of living here? What are the problems? What are the benefits?</td>
<td>Consider different perspectives</td>
<td>What are we going to need to think about if this graph is to be clear?</td>
<td>Appreciating the perspective of outsiders</td>
<td>How can we make this more surprising, how can we use patterns, silence, symmetry in our music? How could we improve it?</td>
<td>Negotiating movement/dance decisions, evaluating /planning improvements.</td>
<td>Are there any things we can’t see?</td>
</tr>
<tr>
<td>How are we going to include opportunities for maths? (Application of Number)</td>
<td>Fibonacci series Numbers in natural objects; petals, leaves, sea shells) Classification: Moral considerations</td>
<td>Using numbers to make the arguments, numbers of people affected; traffic, animals etc.</td>
<td>Mapping Traffic survey Using maps at different scales Making graphs</td>
<td>Percenting of numerical data. Comparing dimensions of school hall/classrooms with old plans</td>
<td>Applying number to real situations</td>
<td>Counting in foreign languages, simple mathematical problems in French, Spanish or German</td>
<td>Beats in a bar Number patterns in music (Gamelan) Drumming patterns Repeating patterns</td>
<td>Eg. Dance movements. Sale of tickets to performances</td>
<td>Significant numbers, 3, 7, 12 Numbers in nature</td>
</tr>
<tr>
<td>How am I going to help my children see themselves as thinkers? (Thinking Skills)</td>
<td>Information processing (Reasoning (Enquiry) (Evaluation: all involved)</td>
<td>Information processing Evaluation thinking: What do we think about this issue?</td>
<td>Creative thinking: How can we represent this area on a map? Enquiry thinking: What do we like/dislike about our locality?</td>
<td>Information processing: deciding on which information to include and which to leave out</td>
<td>Creative thinking: new presentation ideas Information processing</td>
<td>Evaluation: Why might this be a good thing?</td>
<td>Translators Foreign sites Background information on the web CD ROM packages</td>
<td>Creative thinking: using body movements and shape to suggest mini beast movement and life.</td>
<td>Stimulus for reflection Other cultures views on insects (eg San (‘Bushmen’) and the Mantis). Record reflections for DVD</td>
</tr>
<tr>
<td>How am I going to use ICT? (Information technology)</td>
<td>Variety of life. Take close up photos and video footage of insects in their habitat</td>
<td>Word processing Stimulus material from the web</td>
<td>Current information from the www CD ROM GIS satellite images and packages like Digital worlds</td>
<td>Making links to Census and other historical information on web, collect and evaluate different sources</td>
<td>Using calculators, different measures, collecting data</td>
<td></td>
<td>Using digital cameras, different measures, collecting data</td>
<td>Make DVD of final product</td>
<td></td>
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</tbody>
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