Chapter

Children with special educational needs all have learning difficulties or disabilities that make it harder for them to learn or access education than most children of the same age. These children may need extra or different help from that given to other children of the same age.

(DfES 2006a: n.p.)

The above definition of 'special educational needs' (SEN) provides a simple but accurate description of the children and students whose education is the main focus of this book. It is believed that approximately 15 to 20 per cent of children will have some form of special educational need at some time during their time at school, with about 3 per cent requiring ongoing high-level educational support (DfEE 2001).

Some children with SEN have significant difficulty learning effectively within the mainstream curriculum, due in some cases to below-average cognitive ability, an emotional or motivational problem, poor school attendance, or a behaviour disorder. Others may have difficulty, not in learning, but in accessing resources within the school environment due to a physical or sensory disability (DfES 2006b). In addition, it is now recognised that *any* student may have 'additional educational needs' (AEN) arising from other factors such as English as an additional language, family difficulties, health problems, or social disadvantage (Soan 2004).

Most developed countries share very similar views of what constitutes a 'special educational need'; but countries vary in the extent to which their education policies embody a categorical perspective specifying the particular disabilities that enable a child to be eligible for special education and related services. Countries such as Australia and New Zealand, for example, adopt a fairly non-categorical approach, and identify special educational needs more in terms of the amount of additional support a child or student may require, rather than by the nature of the individual's disability. In the US, by way of contrast, the amended *Individuals with Disabilities Education Act* (IDEA) of 1997 identifies specific disabilities and impairments such as mental retardation (intellectual disability), problems with hearing, vision, speech or language and health, emotional disturbance, orthopaedic impairments,

many countries include the category of gifted in their policies for special education autism, traumatic brain injury, and specific learning disabilities (US Congress that gifted and talented students also have special educational needs - but not second-language difficulties (Friend and Bursuck 2006). Many writers point out 2002). To this long list one can also add children who have been described in (ADHD) and children who are at risk of developing learning problems due to the past as 'slow learners', children with attention-deficit hyperactivity disorder

needs the OECD (2000) suggested three broad categories: In an attempt to clarify definitions and descriptions of students with specia

- students with identifiable disabilities and impairments;
- students with learning difficulties not attributable to any disability or ппрантелі;
- students with difficulties due to socio-economic, cultural or linguistic disadvantage.

and all schools must strive to be inclusive by educating the full range of children can expect to teach children with special educational needs in their regular classes. Removing Barriers to Achievement (DfES 2004a) make it clear that all teachers from the local community. the UK for example, documents such as Every Child Matters (HMSO 2003) and disabilities) the worldwide trend is toward placement in mainstream classes. In For most children in all three categories (other than those with severe and complex

of students with diverse educational needs in the regular classroom is proving to challenge to teachers everywhere. Ellis (2005: 2) has remarked that, 'The inclusion diverse, and the education of these children in the mainstream presents a major before. The population of students with special educational needs is extremely teachers, who are now required to cater for a much wider range of ability than ever those needs in regular classrooms additional knowledge about students with special needs and how best to meet inclusive schooling has created a situation where all teachers must now acquire be an extremely difficult and complex task for many teachers'. The move toward The policy of inclusion has had a major impact on the role of regular class

of inclusive education (Atkinson et al. 2006). support. It is clear that teachers themselves need support in meeting the challenges who must now work much more closely with regular class teachers to provide Inclusion has also changed the role of special education and remedial teachers.

Inclusive schooling and special educational

ual disability or with significant physical or sensory impairments, were routinely Prior to the 1970s, most SEN students, particularly those with moderate intellect-

> a shift in thinking from a medical 'separate treatment' model to a 'social model' where differences among learners are recognised, respected and addressed within given any necessary support in that setting. This change reflects, to some extent, degrees of disability or difficulty are usually retained in mainstream classes and the context of mixed-ability teaching (Soan 2004). In recent years the situation has changed, and students with mild to moderate placed in special classes or special schools to receive an adapted form of education

strongly for students with special educational needs to be taught within the regular education system. In 2004, UNESCO defined inclusive education in for Action on Special Needs Education (UNESCO 1994), a document advocating ideal was given additional impetus by The Salamanca Statement and Framework 1990s under the influence of policies of social justice and equity. The inclusion 'integration' or 'mainstreaming', and gained momentum in the late 1980s and The move toward inclusion began tentatively in the 1970s under the banner

who are vulnerable to marginalisation and exclusion learning needs of all children, youth and adults with a specific focus on those Inclusive education is a developmental approach seeking to address the

(UNESCO 2004: n.p.)

attitude toward inclusion and toward students with disabilities is a powerful of Europe and Asia. However, in many of these countries the implementation al. 2006). In the UK, the Department for Education and Skills (DfES 2004a: 32) numence on the success or failure of inclusion (e.g. Skidmore 2004; Ostrosky et teaching children with SEN in the mainstream. Studies have shown that teachers' inclusion, in part because teachers and principals were not strongly in favour of 2004a; Rustemier and Vaughn 2005). Some countries have been slow to promote often the rhetoric of 'inclusion' is far ahead of the reality in schools (DfES of inclusive classroom practice is still lagging behind the stated policies - and United States, Canada, Britain, Australia, New Zealand, Scandinavia, and much in most developed countries, and has influenced education policy-making in the a more inclusive society. This principle has been accepted to varying degrees in the regular classroom. It is believed that inclusive schooling paves the way for gender, ethnicity, social class, ability or disability, has the basic right to be educated Underpinning inclusive education is the principle that every child, regardless of

requires positive attitudes toward children who have difficulties in school, a all staff to play their part. The leadership of the head-teacher is a key factor greater responsiveness to individual needs and critically, a willingness among Effective inclusion relies on more than specialist skills and resources. It in making this happen.

between mainstream and special setting should be preserved. However, the more is often argued that the full range of placement options, including special schools with alternative curricula and readily-available support services. For this reason it with special needs can have those needs met most effectively in separate settings who advocate inclusion for all and those who believe strongly that some children Orelove 2001; Kauffman et al. 2005). Many tensions still remain between those not the least restrictive learning environment for some children (e.g. Dymond and without their critics - with some educators arguing that regular class placement is advocate the inclusion of all students with disabilities ('full inclusion') are not with mild disabilities should be included in the regular classroom, policies that of all special schools and segregated units. vocal of the inclusive education advocacy groups are still calling for the closure a disability. Many educators believe that the right of parents to make the choice made concerning the most appropriate educational setting for each individual with and special classes, must be retained, thus allowing for responsible choice to be Although there is fairly general acceptance of the principle that students

since many of these students require a high degree of physical care and management or in a special setting, the aim is always to address the child's needs through the that are more adaptive to the specific needs of such students (Janney and Snell problems. It is believed that regular class teachers can adopt teaching approaches with milder forms of disability and with general learning difficulties presents fewer over and above their educational needs. By comparison, the inclusion of students and special methods or resources that may be required (DfES 2006a: n.p.) provision of a broad and balanced education, together with any additional support 2004). Regardless of whether a child with SEN is placed in a mainstream class individuals with severe and multiple disabilities or with challenging behaviour, The practical problems surrounding inclusion are most obvious in the case of

Factors associated with successful inclusion

classroom with appropriate access to the general curriculum: minimum the following ingredients are required if students with significant Johnson 2006; Kauffman et al. 2005; Rea et al. 2002). It seems that as a very classroom practices result in the most effective inclusion for all students (e.g. Research is still investigating which models of school organisation and which learning or adjustment problems are to be successfully included in the regular

- strong leadership on the part of the school principal;
- development of a whole-school policy supportive of inclusion;
- positive attitudes in staff, parents and children towards students with
- commitment on the part of all staff to work collaboratively and to share
- development of mutual support networks among staff
- regular assistance from paraprofessionals (classroom aides and assistants);
- adaptation of curriculum and teaching methods (differentiation);
- effective links with outside agencies and services;
- adequate resourcing in terms of materials and personnel
- ongoing training and professional development for staff,
- close liaison with parents;
- direct parental involvement in a child's educational programme, where

many years to come. education, mainly from philosophical, political and managerial perspectives Inclusive education - and how best to achieve it - will be the topic of debate for Gradually, more books are addressing the classroom practicalities of inclusion In recent years many books and articles have been written on the theme of inclusive

How many students have special educational

a vested interest in reporting high prevalence rates in order to gain additional and behavioural difficulties are reported in approximately 9 per cent of the school all students with general learning difficulties, low achievement, and behaviour studies have suggested a much higher figure - even as high as 32 per cent if been widely accepted in many countries that 15 to 20 per cent of students will or behaviour problems. An OECD report on inclusive education states that it has underestimating the true number of children with disabilities, learning difficulties resources or support for the school; on the other hand, official figures may be more children than the official prevalence figures would predict (McKinnon and with just over 1 per cent enrolled in special schools (DfES 2004a). intellectual, physical, or sensory disabilities is relatively small, possibly no more population (Croll and Moses 2000). The percentage of children with significant problems are included (Westwood and Graham 2000). Very significant emotional have special needs at some time in their school careers (OECD 1999). Some Gordon 1999; Westwood and Graham 2000). This may be because teachers have special needs in their own classes they tend always to identify significantly than 3 per cent of the school population (Colbert and van Kraayenoord 2000) When mainstream teachers are asked to identify the number of students with

characteristics and instructional needs of children with various types of disability of students with general and specific learning difficulties. In later chapters the will be discussed. The remaining sections of this chapter address the characteristics and needs

Learning difficulties: confusing terminology

students with intellectual disability are also sometimes described as having 'a with intellectual disability (mental handicap or mental retardation). In the UK disability' are not used to describe intellectual disability. This inconsistent their use in most other countries. In the UK these terms are applied to students It must be noted here that the terms 'moderate learning difficulties' (MLD) and disability' will not be used to refer to students with intellectual disability; and of normal intelligence. In this book, the terms 'learning difficulty' and 'learning on special education, particularly since the abbreviation SLD has traditionally terminology gives rise to confusion when reading the international literature 2004). In most other countries the terms 'learning difficulty' and 'learning learning disability' (see for example British Institute of Learning Disabilities 'severe learning difficulties' (SLD) are used very differently in the UK from the abbreviation SpLD will be used to denote specific learning disability, as been used in most countries to denote 'specific learning disability' in students

difficulties Students with general and specific learning

impact adversely on a child's ability to learn across the curriculum (Hay et al literacy and numeracy skills. Difficulties with reading, writing and numeracy then involve 15 to 20 per cent of the school population (Smart et al. 2005). These intellectual, physical or sensory impairment. Estimates suggest that this may those with general and specific learning difficulties that are not related to any The largest single group of students with special needs in any country comprises learning difficulties most frequently manifest themselves as problems in acquiring

who have been referred to as 'slow learners', 'low achievers', or simply 'the hard directly related to a specific intellectual, physical or sensory disability. Students to teach', certainly fall within the category 'learning difficulties'. So too does It is estimated that this group represents approximately 3 per cent of the school disability (SpLD) - those of at least average intelligence who for no obvious the very much smaller group of children described as having a specific learning much precision. Usually the term is applied to students whose difficulties are not reason experience chronic problems in learning basic academic skills (APA 2000) The term 'learning difficulties' is a very general one, used widely and without

> not addressed, may persist into adulthood with a greater risk of psychological problems such as anxiety, depression and lowered self-esteem? improve their achievement level and restore their confidence. Kirby et al. (2005: specific problems in learning and to provide support and skilled teaching to 123) suggest that: 'There is evidence that difficulties experienced at school, if It is vitally important to identify students who are experiencing general or

Possible causes of general learning difficulty

as possible causes of a learning difficulty, but now it is acknowledged that: Until recently, curricula, teaching methods, and materials were rarely investigated expectation of success, and the perceived relevance or value of the learning task of teachers' language, suitability of resource materials, learners' confidence and ability and task-approach strategies, teachers' instructional methods, complexity curriculum content, learners' prior knowledge and experience, learners' cognitive Most learning problems arise from a complex interaction among variables such as The cause of a learning difficulty usually cannot be attributed to a single factor.

grouping of pupils, inflexible teaching styles, or inaccessible curriculum cognitive impairments. materials - as much as from individual children's physical, sensory or Difficulties in learning arise from an unsuitable environment – inappropriate

(DfES 2004a: 28)

peer group. interpersonal relationship between teacher and learner, and relationships with the in the learning environment, the health or emotional state of the learner, the Many additional factors may also contribute to a failure to learn, such as distractions

curriculum. Even parents tend to assume that there is something 'wrong' with to focus almost exclusively on so-called 'deficits' or weaknesses within the their child if school progress is unsatisfactory. difficulty, it seems that most teachers, psychologists and researchers still tend learner to account for children's problems in coping successfully with the school Despite the many and varied possible causal factors associated with learning

to as the 'deficit model' or 'blame the victim'. The deficit model suggests that learning problems are due to: learning difficulties, resulting in lists similar to the one below -- often referred Many researchers have attempted to summarise characteristics of students with

- below average intelligence
- poor concentration;
- problems with visual and auditory perception;
- difficulties in understanding complex language;
- limited vocabulary;

- low motivation;
- poor recall of previous learning;
- inability to generalise learning to new contexts:
- lack of effective learning strategies;
- deficient self-management skills;
- poor self-esteem;
- learned helplessness, or diminished belief concerning self-efficacy;
- behavioural and emotional reactions to failure.

While these weaknesses do exist in many students with learning difficulties, they should not be viewed as obstacles too difficult for teachers to overcome, but rather as clear indications of the students' need for high-quality teaching. The deficit model does at least highlight specific difficulties that need to be taken into account when planning and implementing classroom programmes.

Rather than blaming the victim it is usually much more productive to examine factors outside the child such as quality and type of instruction, teacher expectations, relevance of the curriculum, classroom environment, interpersonal dynamics within the class social group, and rapport with the teacher. These factors are much more amenable to modification than are factors within the child or within the child's family background or culture. Trying to identify how best to help a student with general learning difficulties involves finding the most significant and alterable factors that need to be addressed, and providing students with high-quality instruction.

Students with specific learning disabilities (SpLD)

Specific learning disability (SpLD) is the term applied to approximately three children in every 100 whose difficulties cannot be traced to any lack of intelligence, sensory impairment, cultural or linguistic disadvantage or inadequate teaching. This disability manifests itself as a marked discrepancy between intellectual ability and academic achievement (APA 2000). This small group exhibits chronic problems in mastering the basic academic skills of reading, writing, spelling and mathematics. Some students with SpLD also have problems with social relationships (Pavri 2006) and a few have minor difficulties with physical skills.

Perhaps the most comprehensive and widely accepted definition of SpLD comes from legislation in the US, where it is stated that:

The term 'specific learning disability' means a disorder in one or more of the basic psychological processes involved in understanding or in using language, spoken or written, which disorder may manifest itself in imperfect ability to listen, think, speak, write, spell, or to do mathematical calculations. Such term includes such conditions as perceptual disabilities, brain injury, minimal brain dysfunction, dyslexia, and developmental aphasia. Such term does not

include a learning problem that is primarily the result of visual, hearing, or motor disabilities; of mental retardation; of emotional disturbance; or of environmental, cultural, or economic disadvantage.

(US Public Law 108-446, cited in Lerner and Kline 2006: 7)

Over the years, children with learning disabilities have been described as possessing some of the following characteristics:

- a history of late speech development; continuing immaturities in articulation and syntax;
- visual perception problems resulting in frequent reversal of letters and numerals; some individuals reporting distortion or blurring of print when reading;
- auditory perception problems, including difficulties in developing phonemic awareness;
- difficulty in recalling words, or quickly naming familiar objects:
- mmor signs of possible neurological dysfunction;
- hyperactivity and/or attention deficits;
- poor motor co-ordination;
- metricient learning strategies and poor self-management;
- secondary emotional and behavioural problems due to persistent failure;
- diminished motivation;
- learned helplessness, anxiety and depression.

It must be noted that almost all of the problems listed above may also be found to varying degrees in students who have general learning difficulties rather than SpLD, so the list does not really help to differentiate between those who have a genuine learning disability and those who are often referred to as having 'garden variety' learning difficulties. To add to the problem of identification it is also the case that any one child with SpLD may exhibit only a few of the characteristics in the list.

dentification of Splu

It is often argued that the difficulties of many students with learning disability are not recognised early enough in school, and unfortunately many SpLD students are considered simply lazy or unmotivated. Some of these students will go on to develop social and emotional problems and some will present with major behaviour difficulties (Hallahan and Kauffman 2006). Studies have shown that a significant number of students with SpLD leave school at the earliest possible date and do not pursue studies later as adults (Sabornie and deBettencourt 2004).

The traditional method for identifying SpLD is to assess the student's level of intelligence using a standardised intelligence test, then to obtain standardised measures of attainment in academic skills such as reading, spelling, and

mathematics. Any marked discrepancy between level of intelligence and level of attainment (an indication of so-called 'significant under achievement') might indicate the presence of a learning disability. There have been many objections raised to the rigid use of this discrepancy approach to identification, since it might exclude some students who have obvious learning difficulties from receiving additional remedial support, simply on the basis of IQ (Sternberg and Grigorenko 2001).

genuine learning disability (Reschly 2005). making very poor progress even with Tier 3 support are possibly those with a responders, with children taught in pairs or individually. Children who are still 'Third Wave Intervention' in the UK) provides daily intensive tuition for poor tutoring and practice provided for up to 20 per cent of children. Tier 3 (termec class. Tier 2 represents 'secondary prevention', with additional small-group to systematic and high-quality first teaching of reading and maths in the regular this system, Tier I represents 'primary prevention', with all students exposed adopted for remedial reading and mathematics (e.g. DfES 2002; 2005). Under well with the 'multi-tiered' or 'multi-wave' intervention systems currently being one-to-one tuition (Bradley et al. 2005; Vellutino et al. 2006). This model sits period of time are then referred for in-depth psychometric assessment and ongoing tutoring in small groups, and only those who fail to respond within a reasonable students with learning difficulties would first be given regular additional intensive general learning difficulty, is the child's lack of positive response to high-quality intervention (Kavale 2005). Under this 'response to intervention' (RTI) model, It has been suggested that the best indication of SpLD, as opposed to a

Dyslexia and other learning disabilities

The most widely recognised learning disability is *dyslexia*. This form of reading problem is thought to be present in approximately 1 to 2 per cent of the school population — although some reports place the prevalence rate very much higher. Dyslexia is often defined as a 'disorder' causing difficulty in learning to read despite conventional instruction, adequate intelligence, and opportunity.

The oral reading performance of dyslexic students tends to be very slow and laboured, with maximum effort devoted to identifying each individual word, leaving minimum cognitive capacity available for focusing on meaning. The student tires easily and avoids reading if possible. The dyslexic student typically has great difficulty in:

- understanding and applying phonic decoding principles;
- building a vocabulary of words recognised by sight;
- making adequate use of contextual cues to assist word recognition;
- developing speed and fluency in reading;
- understanding what has been read.

Other forms of learning disability described in the literature include *dysgraphia* (problems with writing), *dysorthographia* (problems with spelling), *dyscalculia* (problems with number concepts and arithmetic) and *dysnomia* (inability to retrieve words, names, or symbols quickly from memory). It is doubtful, of course, that these pseudo-medical terms have any real value, particularly in determining an intervention programme for an individual child. The *Diagnostic and Statistical Manual of Mental Disorders* (APA 2000) describes the same problems under the categories: 'reading disorder', 'mathematics disorder', and 'disorders of written language'.

Possible causes of specific learning disability

Some authorities in the learning disability field tend to attribute the learning problem to neurological deficits or to developmental delay (see for example discussions in Lerner and Kline 2006, or Lyon et al. 2003). Bender (2004) on the other hand, points out that the neurological perspective, although capturing researchers' keen attention for nearly 70 years, remains controversial and has failed to produce any useful treatment strategies or teaching interventions.

Although much emphasis has been placed on possible organic and biological causes of learning disability, interest has also been shown in other possible causes. In particular, attention has been directed towards students' learning styles and learning strategies (Gregory and Chapman 2002). In many cases of learning disability the children do not appear to have an effective system for approaching a task such as phonic decoding, writing a story, or completing an arithmetic problem. Their lack of effective strategies produces a high error-rate and rapid frustration. It has become popular in recent years to say that these students need to 'learn how to learn' so that they can tackle classroom activities with a greater chance of success. The important thing to note is that current evidence suggests that children can be taught to use more efficient learning strategies and can then function at significantly higher levels (Ellis 2005; Paris and Paris 2001). What is also clear is that attempts at matching the method of instruction to students' so-called natural and 'preferred learning style' is not effective, although the notion appeals intuitively to many teachers (Coffield *et al.* 2004; Mortimore 2005).

One particular factor considered to cause learning problems typical of students with a specific reading disability is a lack of awareness of the phonological (speech–sound) aspects of oral language. This difficulty in identifying component sounds within words also impairs their ability to master phonic principles and apply the decoding strategy for reading and spelling (Muter and Snowling 2003; Stahl and McKenna 2006). It is now believed that in the most severe cases of reading disability this poor phonological awareness is often accompanied by a 'naming-speed' deficiency in which the student cannot quickly retrieve a word or a syllable or a letter-sound association from long-term memory (dysnomia). These combined weaknesses create what is termed a 'double deficit' and together

the concept of 'learning disability' useful?

reading disability is qualitatively and etiologically different from any of the more science, and fads. While some experts argue strongly that, for example, a severe same reading-difficulty continuum. general forms of reading failure, others regard it as merely a different point on the Learning disability remains a controversial topic. Stanovich (1999: vii) remarked: The field of learning disabilities is littered with dead ends, false starts, pseudo-

examines the literature on teaching methodology for children with SpLD (e.g. general problems in learning to read or calculate would not also be highly relevant is difficult to visualise that any teaching method found useful for children with in tailored teaching methods or instructional resources. In terms of pedagogy, it and delivering intensive high-quality instruction, rather than by identifying them children who find learning to read and write difficult are best served by designing need for high-quality, effective instruction is equally strong in both groups. All gained from seeking to differentiate between SpLD and 'non-SpLD' students; the Any child with a learning problem requires assistance, and there seems little to be but a range of valuable teaching strategies that would be helpful to all children one usually finds not a unique methodology applicable only to SpLD students Lerner and Kline 2006; Lewis and Doorlag 2006; Pierangelo and Giuliani 2006) for other children identified as dyslexic or dyscalculic -- and vice versa. If one It is fairly clear that the study of SpLD has not resulted in any major breakthrough

motivation and learned helplessness Correlates of learning difficulty: reduced

some extrinsic reward it may bring. It is almost as if teachers believe motivation to students avoid class work, refuse to become fully engaged in a learning task, fail motivation. They believe that this lack of motivation is the underlying reason that by outside factors. be an innate trait of learners, rather than a variable that is significantly influenced to complete work they could easily do, or are willing to complete a task only for Teachers often blame a student's learning problems on his or her lack of

experiences of failure. There is abundant evidence that obtaining poor outcomes new commitment in a learning situation. This reluctance is due chiefly to prior come to believe that they lack the ability ever to succeed they may try to avoid self-esteem, and perceptions of self-efficacy (Westwood 2004a). If students from personal effort to learn can have lasting negative effects on the students innate lack of motivation but rather a marked reluctance to take risks or make any For many students with learning difficulties the problem is certainly not an

> others to have failed, self-worth - believing that if they don't attempt the task they will not be seen by participating in achievement-oriented activities simply to protect their feeling of

contribute later to many instances of learning difficulty in school. children forge ahead. The effects of early failure are thus cumulative, and may ensures that the individual does not gain in proficiency or confidence, while other or challenging situation. Avoidance leads to lack of practice. Lack of practice confidence. This loss of confidence leads to deliberate avoidance of the type of or she cannot do something that other children are doing easily, there is a loss of activity associated with the failure, and sometimes even avoidance of any new as failures in certain learning situations. If, for some reason, a child finds that he children suggests that, even at an early age, they can begin to regard themselves is given, and feels totally powerless to change this outcome. Observation of young situation in which an individual never expects to succeed with any task he or she motivation and effort (Burden and Snowling 2005). Learned helplessness is the over time to a state of learned helplessness, with a very significant decline in Students who encounter continual failure and disapproval may regress

and learning activities in the classroom that will lead all students to feel successful remedial support provided after failure has become well established. discussed later. The main challenge for teachers is to try to use teaching methods attribution retraining (Brophy 2004; Horner and Gaither 2004), an approach to be and learned helplessness. One of the ways of remedying this situation is through given sufficient exposure to it almost any student will develop avoidance strategies Prevention of a learning difficulty in this way is so much more effective than students, it must be acknowledged that failure is not a pleasing experience, and While there are different individual thresholds of tolerance for failure among

teachers' motivation Impact of students' learning difficulties on

by ability has become a less popular model of organisation within schools. progress and improvement are lowered in the case of bottom-stream classes motivation. Researchers have suggested that teachers' expectations for students' stream classes, can have a very negative effect on teachers' own enthusiasm and teaching students with learning problems, particularly if the students are in lowand Denti 2004). According to studies reviewed by Eggen and Kauchak (2004), influence the attitude teachers develop towards such students (Berry 2006; Feldman (Chang and Westwood 2001). This is one of the reasons why grouping students reduced motivation seen fairly frequently in students with learning difficulties can teachers' attitude and motivation. The poor learning habits, low achievement, and Unfortunately, children's learning problems can have a negative impact on

are communicated all too easily to students. When teachers' attitudes towards the students are perceived as negative they often exert detrimental influences on Teachers' negative beliefs and attitudes are extremely significant because they

may add to students' own perceptions of being incompetent. Even unintentional efficacy are built out of the way that teachers behave towards them; and as Biggs students' self-esteem and willingness to work. Students' self-esteem and selfor 'no-hopers', the development of learned helplessness becomes more likely. they perceive as having low ability. The end result is a lowering of the students which teachers, albeit unwittingly, communicate reduced expectations to students praise, too much help — may cause students to believe they are lacking in ability or cues from teachers - such as providing simplified materials, easier tasks, too much The everyday actions and reactions of teachers when teaching low-ability classes (1995: 98) remarked, 'Any messages that suggest incompetence are damaging. feelings of self-efficacy. When students believe their teachers regard them as 'dull that teachers believe them to be so. Brophy (2004) has summarised many ways in

developed more fully in Chapter 14. teaching approaches tend to produce the most successful learning. This theme is In terms of students' progress and motivation it is important to consider which

Teaching approaches

curriculum such as science and social studies (Tweed 2004). effective with some students; but its impact is also being felt in other areas of the numeracy, where there are concerns that child-centred approaches have not been employing methods based on teachers' personal intuition, style, or preference methods that have been carefully evaluated for their efficacy - rather than Due to the fairly disappointing standards achieved by too many students in recent years there have been demands in several countries for schools to adopt teaching (Carnine 2000; DEST 2005; DfES 2004a; Moran 2004). This clarion call for 'research-based instruction' has focused mainly on the teaching of literacy and

emotional development rather than mastery of curriculum content - are though educational needs (e.g. Goddard 1995; MacInnis and Hemming 1995). These whole-language approach to literacy have most to offer children with special approaches such as project work, resource-based learning, activity methods, and to be more accommodating of student differences. However, research evidence suggests that students with disabilities and learning problems frequently do best practice are employed (Swanson and Deshler 2003; Vaughn et al. 2000). in more tightly structured programmes where direct teaching methods and guided 'process-oriented approaches' - which often seem to emphasise social and In the past, some educators have suggested that child-centred constructivist

engaged time refers to the proportion of instructional time in which students are engaged time' and maintaining high levels of on-task behaviour. Academic provide students with the maximum opportunity to learn by increasing 'academic on the other (Ellis 2005). In general, effective teaching methods are those that from the teacher on the one hand, and student-centred application and practice basic academic skills are those that provide a balance between explicit instruction It is firmly believed now that the most effective teaching methods for developing

> students but also reduces significantly the prevalence of learning failure. the available time. Effective teaching not only raises the attainment level of all basic academic skills, tend to have a clear structure, with effective use made of out information for themselves. Effective lessons, particularly those covering attend better to the content of the lesson than students who are expected to find have shown that students who are receiving instruction directly from the teacher academic tasks, and applying previously acquired knowledge and skills. Studies instruction from the teacher, working independently or with a group on assigned actively focused on their work. This active involvement includes attending to

of student achievement include: effective classrooms that distinguish them from less effective classrooms in terms According to Foorman et al. (2006) the features most commonly found in

- teachers display good classroom management;
- more time is devoted to instructional activities;
- students are more academically engaged;
- more active and explicit instruction is used;
- a good balance between teacher-centred and student-centred activities;
- understanding; teachers provide support and 'scaffolding' to help students develop deeper
- tasks and activities are well matched to students' varying abilities (differentiation);
- students are encouraged to become more independent and self-regulated in their learning.

of teaching approach, drew the conclusion that the most effective approach for following features: teaching basic academic skills to students with learning difficulties combines the Swanson (2000), using meta-analyses of learning outcomes from different types

- carefully controlling and sequencing the curriculum content to be studied;
- acquired knowledge and skills; providing abundant opportunities for practice and application of newly
- example, answering the teacher's questions; staying on task); ensuring high levels of participation and responding by the children (for
- providing frequent feedback, correction and reinforcement;
- using interactive group teaching;
- modelling by the teacher of effective ways of completing school tasks;
- teaching children how best to attempt new learning tasks (direct strategy
- making appropriate use of technology (e.g. computer-assisted instruction);
- providing supplementary assistance (e.g. homework; parental tutoring,

In summary, explicit instruction appears to achieve most in the early stages of learning basic academic skills. The use of direct teaching methods in no way precludes the student from ultimately developing independence in learning; indeed, direct teaching in the early stages facilitates greater confidence and independence in later stages. Over many decades, despite the popularity of student-centred, activity-based approaches, clear evidence supports the value of appropriate direct teaching, often delivered through the medium of interactive whole-class lessons (Dickinson 2003).

Wilen et al. (2000: 283) remarked:

As to which types of learners benefit most from this systematic approach, research tells us that it is helpful for young children, slower learners, and students of all ages and abilities during the first stages of learning informational material or material that is difficult to learn.

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disability and autism

Mental retardation [intellectual disability] is a disability characterized by significant limitations both in intellectual functioning and adaptive behavior as expressed in conceptual, social, and practical adaptive skills. This disability originates before age 18.

(Luckason et al. 2002: 1)

In the early days of 'integration', teachers often expressed grave doubts about the feasibility of placing children with intellectual disability in regular classrooms, particularly in relation to their own competence to meet the needs of these students. Teachers' doubts and negative attitudes could be attributed in part to their limited knowledge of disabilities and their lack of first-hand experience working with atypical children (Weisel and Tur-Kaspa 2002). However, the trend toward inclusion has made it essential now for all teachers to possess a working knowledge of the effects a disability can have on a student's development, learning and social adjustment. Teachers also need to develop strategies for helping these children participate in the mainstream curriculum.

Guiding principles for the mainstream teacher

It is essential first to stress two basic principles that should underpin teachers' beliefs and actions in relation to students with disabilities:

- Students with disabilities are *more like* all other children than they are *different from them*. A lack of awareness of this fact is what contributes to teachers' fear of the unknown.
- Students with a particular disability (e.g. Down's Syndrome) as a group are *just as diverse* in their personal characteristics, behaviour, interests, and learning aptitudes as any other group of students. The assumption that they are all the same leads to negative stereotyping of particular disability groups.