Children with Motor Difficulties in Grade 7/8: A Resource for Educators



Ben is turned off school. He struggles to get through the days and experiences many frustrations. He has a very difficult time with written work and is becoming quieter and more socially isolated as time passes. He never seems to have the right books for class, can't find his homework, is unprepared for tests and his grades have slipped. He has one friend at school that he spends most of his time with and they enjoy comic books and computer games. Both boys are frequently the subject of teasing. Ben is not involved in any extra-curricular activities and spends his time at home, watching TV and playing on the computer. Ben does well in the oral parts of the curriculum and seems to be a bright boy, but he is underachieving. His parents are not sure where to turn.

RECOGNIZING MOTOR DIFFICULTIES

Coordination difficulties in school-aged children

A considerable number of school-aged children demonstrate poorly developed motor coordination. This impairment significantly interferes with their academic achievement and/or activities of daily living. Motor coordination difficulties may exist in isolation OR may co-occur with other conditions such as language-based or non-verbal learning disabilities or attention deficit hyperactivity disorder. Children presenting with coordination difficulties that significantly impact their daily functioning may be described as having Developmental Coordination Disorder (DCD). Children with these types of coordination difficulties usually have average or above average intellectual abilities.

What will a teacher see if a child has coordination difficulties?

- The child may appear to be clumsy or awkward in his/her movements. He/She may bump into, spill or knock things over frequently.
- The child may experience difficulty with gross motor skills (e.g., running, hopping, climbing stairs), fine motor skills (e.g., pre-printing tasks, cutting with scissors, doing up buttons or zippers), or both.
- The child's motor skills might not match his/her abilities in other areas. For example, intellectual and language skills may be quite strong while motor skills are delayed.

- The child may have difficulty learning new motor skills. Once learned, however, certain motor skills may be performed quite well while others may be performed poorly.
- The child may avoid or appear to be uninterested in particular activities, especially those that require physical activity.
- The child may experience secondary emotional problems, such as low frustration tolerance, decreased self-esteem and lack of motivation.
- The child may have difficulty with activities of daily living. For example, managing knapsacks, going on overnight or field trips, dressing for gym class.

WHAT CAN A TEACHER DO TO HELP A CHILD PERFORM AT SCHOOL?

The most important thing a teacher can do to help a child reach his/her full potential is to make sure the task and the learning environment are right for the child. The following "M.A.T.C.H." strategy will help the teacher *match* the activity to the child.

M.A.T.C.H. the Activity to the Child

odify the task

This involves changing aspects of an activity that are too difficult for the child to perform. The important thing about modifying a task is that the child can still experience success if they make a genuine effort to participate in the activity.

lter your Expectations

Consider what the ultimate goal of an activity is and then think about where you can be flexible. Allowing extra time or alternate methods of completing a task can make the difference between a lesson learned and an experience of failure for a child with coordination difficulties.

eaching Strategies

Children with poor coordination have full capacity to learn with their peers, but may require a slightly different teaching approach. Investigate alternate teaching strategies designed for children with special needs.

hange the Environment

Pay attention to what is going on around a child when he/she is experiencing success or difficulty (i.e. noise, level of activity, visual distractions). Minimize the environmental factors that make performance difficult for the child.

lelp by Understanding

Understanding the nature of coordination difficulties will help you to problem solve and provide all of your students with rich learning experiences. If children feel supported and understood, they are more likely to attempt new activities and to persevere until they achieve success.

Grade 7/8

MATCH the Activity to the Child!

Modify the activity
Alter your expectations
Teach strategies
Change the environment
Help by understanding

| What you might see | How can <u>you</u> MATCH? |
|--|--|
| Difficulty keeping up with volume of handwriting required for assignments-slow; poor written output; often incomplete/poor note-taking reflected in school performance; crucial information missed, unable to listen well and take notes simultaneously; | Reduce amount of writing required. Allow rough and final drafts of written work on computer. Photocopy notes from class and teach the child how to pick out key meanings while peers are copying from board. Allow more time to complete in-class assignments. If encouraging speed, accept a less accurate product (and vice versa). When possible, send home 'lecture' notes a day early and encourage students to preview. Allow parents to type up final drafts. |
| Difficulties with self- organization (e.g., making sure to take necessary things home to complete homework, moving self | Ensure that all written output is necessary – ask yourself "What skill is this demonstrating to me?" Provide technological accommodations wherever possible (e.g., word processing, voice to text software). Daily checklist to prepare knapsack for home. Child should be directly involved in generating the list. Explicitly teach organization skills to the class and follow up with individuals as needed. Teach child to use agenda effectively. Provide an extra shelf or labeling in locker. Post daily schedule |
| and belongings between classes) Clumsy in gym class; performance in team (competitive) games is not equal to performance in individual games | in locker and color code the same subject across days. Allow child to choose non-competitive games when possible (e.g., running, swimming, cycling, skating, skiing); in these activities, performance is measured against self. Put children with similar abilities together to work on new skills. Emphasize fun, activity and participation/fitness rather than proficiency. Be aware of safety risks to a child with poor coordination. |
| Bumps into people,/objects | Ensure unobstructed pathways to frequently used areas of classroom (e.g., pencil sharpener, teacher's desk, exit doorways); seat the child in edge desk of the row. Allow child to leave early to go to next class or to the bus. |

DCD: A Resource for Educators

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| What you might see | How can you MATCH? |
| What you might see | How can <u>you</u> MATCH: |
| Massylvatidy appearance | Allow more time to dross for aum class, outdoor time & home |
| Messy/untidy appearance, | Allow more time to dress for gym class, outdoor time & home |
| slow to dress | (e.g., send child out earlier than classmates). |
| Difficulty following | Use verbal and/or visual reminders to stay on task. |
| through with instructions, | Keep activities as routine as possible. |
| needs frequent reminders | Use consistent instructions for similar tasks. |
| to stay on task; may need | |
| assistance to complete tasks | |
| Easily frustrated/low | Think about and reduce the amount of movement that is |
| tolerance for motor tasks; | required to perform the activity. |
| resists new activities; | Break the activity into small parts. |
| decreased self-esteem & | Be available to assist/intervene when the child has difficulty. |
| motivation to perform | Allow extra time for teaching and practice. |
| motivation to perform | Provide lots of praise for child's attempts to perform new |
| | activities. |
| | Reassure the child when he or she has difficulty. |
| Rushes through tasks or is | Allow extra time to complete an activity. |
| unusually slow; gives up | If the goal is to promote speed, accept less accurate product (and |
| easily | vice versa). |
| | Encourage children to self-evaluate process and product. |
| | Ensure child has time to complete assigned tasks within the |
| | allotted time frame. |

If a child is still experiencing difficulty performing motor tasks despite your best efforts, consider speaking with his/her parents about making a referral to a health professional.

WHO ELSE SHOULD THIS CHILD SEE?

Encourage the family to see their family physician. It is important that a medical practitioner rule out other conditions that might explain the child's motor coordination difficulties.

A physician, teacher or parent can refer the child to an occupational therapist. Occupational therapists (OT) are educated and trained in analyzing motor skill development and also in determining the ability of a child to cope with the demands and activities of everyday life. The OT will observe and assess the child and may then make recommendations including: specific strategies for handwriting and classroom tasks; tips to make self-care tasks easier; activities to improve the child's motor coordination; ideas for community leisure and sports activities; and techniques to ensure that the child experiences success.

A referral to a physiotherapist may also be appropriate if the child has gross motor difficulties (poor balance, low strength, difficulties with running, stair-climbing and other physical activities).

REFERENCES AND FURTHER INFORMATION

The term "Developmental Coordination Disorder" (DCD) has only recently received the attention and acceptance of practitioners and researchers in health care and educational fields. Other terms that you may find helpful to search under include "clumsy" and "physically awkward" children. Very little has been published about children with DCD in professional journals and even less has been written in the popular press or parenting magazines. For further reading on DCD, please refer to the booklet "Children with Coordination Difficulties: At home and in the classroom" (http://dcd.canchild.ca/en/EducationalMaterials/resources/dcdrevised.pdf) and the article "They're Bright But Can't Write: Developmental Coordination Disorder in school-aged children" (http://dcd.canchild.ca/en/EducationalMaterials/resources/TheyreBrightButCantWrite.pdf).

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For more information about children with DCD, visit the *CanChild* Centre for Childhood Disability Research website:

www.canchild.ca

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