

**What are Executive Functions (EF)?**

A set of related processes needed to manage oneself and one’s resources to achieve a goal. Executive Function is an umbrella term for brain-based skills involving mental control and self-regulation that can be conceptualized into three categories: working memory, cognitive flexibility and impulse control.

EF develop with age and experience. All students have unique strengths and weaknesses - they may excel with some skills and struggle with others. As well, younger children or those with histories of trauma will require more support to develop EF.

Signs that students may be struggling with EF include difficulty starting or completing work, difficulty managing their emotions and behaviour, staying focused, or adapting to changes.

Working Memory:	Cognitive Flexibility:	Impulse Control:
<p><b>Working Memory:</b>            Hold and use auditory and/or visual information in mind to complete a task.  <i>Example: remembering and following 2-3 directions</i></p>	<p><b>Cognitive Flexibility:</b>            Adjust behavior to unexpected changes, think about things in a different way, and move freely from one situation to another.  <i>Example: switching from free play to academic tasks</i></p>	<p><b>Impulse Control:</b>            Stop one’s own behavior at the appropriate time, including actions or impulses. It is connected to self- and emotional regulation.  <i>Example: waiting to speak until called on</i></p>
<p>Use multi-modal teaching techniques            (e.g., pairing visual, verbal, and tactile information)</p>	<p>Activities that involve multiple-meaning words, word categories, and numbers puzzles            (e.g., Scattergories)</p>	<p>Identify early signs of loss of control and plan for extra support in the moment            (e.g., use a nonsense word to cue self-control)</p>
<p>Play memory games            (e.g., Memory Match, Bop It)</p>	<p>Identify unexpected events and model self-talk while approaching a task or situation            (e.g., That was unexpected, but I have a few options...)</p>	<p>Teach alternatives to undesirable behavior            (e.g., sticky notes to write something down rather than interrupting)</p>
<p>Teach external storage systems            (e.g., agenda, checklists, to-do lists, apps)</p>	<p>Use language to show flexibility            (e.g., stuck/unstuck; big deal/little deal; Plan B)</p>	<p>Offer cues and prompts to strengthen the “stop” function            (e.g., wristband reminder to raise hand to talk).</p>
<p>Repeat information and teach recall strategies            (e.g., mnemonics)</p>	<p>Present and use routines with visuals            (e.g., schedule)</p>	<p>Offer movement and creative activities and teach calming techniques            (e.g., deep belly breathing, mindfulness)</p>