

Table S1

Descriptive Information on Manifest Variables

	SCT	IN	HI	ODD	ANX	DEP	SLP	SHY	FRD	#FR	SI	AI	TM	SO	SR	SM	ER
SCT	1.00																
IN	0.72	1.00															
HI	0.53	0.76	1.00														
ODD	0.52	0.70	0.71	1.00													
ANX	0.63	0.57	0.50	0.51	1.00												
DEP	0.66	0.57	0.44	0.54	0.69	1.00											
SLP	0.40	0.36	0.29	0.39	0.39	0.44	1.00										
SHY	0.40	0.30	0.20	0.25	0.50	0.44	0.32	1.00									
FRD	0.52	0.51	0.44	0.45	0.53	0.56	0.37	0.60	1.00								
#FR	-0.29	-0.30	-0.25	-0.24	-0.28	-0.27	-0.22	-0.40	-0.50	1.00							
SI	0.35	0.40	0.33	0.43	0.32	0.33	0.31	0.37	0.43	-0.38	1.00						
AI	0.38	0.50	0.36	0.35	0.26	0.25	0.30	0.21	0.32	-0.32	0.53	1.00					
TM	0.54	0.73	0.57	0.58	0.42	0.42	0.36	0.27	0.45	-0.26	0.35	0.45	1.00				
SO	0.64	0.66	0.53	0.48	0.48	0.46	0.35	0.38	0.49	-0.32	0.39	0.52	0.63	1.00			
SR	0.50	0.69	0.69	0.69	0.41	0.42	0.35	0.23	0.45	-0.27	0.40	0.43	0.67	0.64	1.00		
SM	0.55	0.71	0.55	0.61	0.43	0.48	0.39	0.29	0.48	-0.28	0.39	0.51	0.75	0.63	0.70	1.00	
ER	0.47	0.60	0.57	0.67	0.49	0.45	0.37	0.33	0.48	-0.28	0.41	0.36	0.59	0.57	0.68	0.61	1.00
Mean	0.97	1.46	1.42	1.29	0.91	0.56	1.10	1.24	0.91	2.98	2.20	2.28	1.20	0.75	1.04	0.94	0.94
SD	0.86	1.28	1.24	1.24	0.94	0.82	0.63	0.87	0.94	1.44	1.35	1.54	0.88	0.82	0.90	0.86	0.94

Note. $N = 2056$. SCT=sluggish cognitive tempo (0-5), IN=inattention (0-5), HI=hyperactivity/impulsivity, (0-5), ODD=oppositional defiant disorder (0-5), ANX=anxiety (0-5), DEP=depression (0-5), SLP=sleep difficulties (0-4), SHY= conflicted shyness (0-4), FRD=friendship difficulties (0-4), #FR= number of friends (0-5), SI=social impairment (0-6), AI=academic impairment (0-6), TM=time management (0-3), SO=self-organization (0-3), SR=self-restraint (0-3), SM=self-motivation (0-3), and ER=emotion regulation (0-3).

Table S2

Standardized Primary and Secondary Loadings (Standard Errors) of Sluggish Cognitive Tempo (SCT), ADHD Inattention (IN), and ADHD-Hyperactivity/Impulsivity (HI) Symptoms on SCT, ADHD-IN, ADHD-HI Factors

Symptoms	SCT	ADHD-IN	ADHD-HI
SCT Symptoms			
1. Behavior is slow (e.g., sluggish)	.65 (.03)	.14 (.03)	-.19 (.03)
2. Lost in a fog	.84 (.02)	-.07 (.03) ^{ns}	.03 (.02) ^{ns}
3. Stares blankly into space	.94 (.02)	-.28 (.03)	.15 (.02)
4. Drowsy or sleepy (yawns) during the day	.75 (.02)	-.13 (.03)	-.10 (.03)
5. Daydreams	.83 (.02)	-.31 (.03)	.20 (.02)
6. Loses train of thought	.64 (.02)	.08 (.03) ^{ns}	.19 (.02)
7. Low level of activity (e.g., underactive)	.69 (.03)	.21 (.03)	-.38 (.03)
8. Gets lost in own thoughts	.82 (.02)	-.13 (.03)	.15 (.02)
9. Easily tired or fatigued	.80 (.02)	.09 (.03) ^{ns}	-.28 (.02)
10. Forgets what is going to say	.68 (.02)	.05 (.03) ^{ns}	.08 (.02) ^{ns}
11. Easily confused	.75 (.02)	.15 (.03)	-.01 (.02) ^{ns}
12. Spaces or zones out	.88 (.02)	-.10 (.02)	.12 (.02)
13. Gets mixed up	.76 (.02)	.12 (.03)	.02 (.02) ^{ns}
14. Thinking is slow	.70 (.02)	.26 (.03)	-.14 (.02)
15. Difficulty expressing thoughts (e.g. gets “tongue tied”)	.60 (.02)	.21 (.03)	.02 (.02) ^{ns}
ADHD-Inattention Symptoms			
1. Close attention to details	.07 (.02)	.81 (.02)	.02 (.02) ^{ns}
2. Sustaining attention	.10 (.02)	.73 (.02)	.15 (.02)
3. Listening when spoken to directly	.04 (.02) ^{ns}	.69 (.02)	.20 (.02)
4. Follow through on instructions	.00 (.02) ^{ns}	.85 (.02)	.11 (.02)
5. Organizational skills	-.02 (.02) ^{ns}	.89 (.02)	.00 (.02) ^{ns}
6. Avoids tasks requiring sustained effort	.13 (.02)	.72 (.02)	.06 (.02) ^{ns}
7. Loses things	.02 (.02) ^{ns}	.76 (.02)	.07 (.02)
8. Easily distracted	.08 (.02) ^{ns}	.68 (.02)	.22 (.02)
9. Forgetful	.14 (.02)	.73 (.02)	.10 (.02)
ADHD-Hyperactive/Impulsive Symptoms			
1. Fidgets/squirms	.07 (.02) ^{ns}	.25 (.03)	.57 (.02)
2. Leaves seat	.06 (.02) ^{ns}	.21 (.02)	.67 (.02)
3. Runs/climbs	.00 (.02) ^{ns}	.13 (.03)	.78 (.02)
4. Difficulty playing quietly	-.02 (.02) ^{ns}	.12 (.02)	.79 (.02)
5. Talks excessively	.04 (.02) ^{ns}	.06 (.02) ^{ns}	.78 (.02)
6. Driven/on the go	-.04 (.02) ^{ns}	.02 (.03) ^{ns}	.76 (.02)
7. Blurts	.09 (.02)	.00 (.03) ^{ns}	.77 (.02)
8. Difficulty awaiting turn	.08 (.02)	.03 (.02) ^{ns}	.82 (.02)
9. Interrupts/intrudes	.04 (.02) ^{ns}	.10 (.02)	.77 (.02)

Note. $N = 2056$. The wording of the SCT items is the same as the scale. The wording of the ADHD-IN and ADHD-HI items is reduced for the table (complete wording available from authors). SCT = sluggish cognitive tempo. ADHD-HI = attention-deficit/hyperactivity disorder-hyperactivity/impulsivity. ADHD-IN = attention-deficit/hyperactivity disorder-inattention. All loadings significant at $p < .001$ unless noted as ns (non-significant).

Table S3

External Correlate Differences between Comparison (n=1,861), SCT only (n=53), ADHD-IN only (n=30), and ADHD-HI only (n=40) Groups

External Correlates	1. Comparison		2. SCT only		3. IN only		4. HI only		F	Contrasts	Eta ²
	M	SE	M	SE	M	SE	M	SE			
Psychopathology Symptoms											
Oppositional defiant disorder	1.10 ^a	0.02	2.15 ^b	0.18	2.68 ^c	0.26	3.33 ^d	0.20	92*	1 < 2 < 3 < 4	.14
Anxiety	0.78 ^a	0.02	2.07 ^b	0.18	1.84 ^b	0.23	1.18 ^c	0.13	60*	1 < 2, 3 < 4	.09
Depression	0.45 ^a	0.02	1.58 ^b	0.18	1.17 ^c	0.17	0.79 ^d	0.13	60*	1 < 4 < 3 < 2	.09
Sleep											
Sleep Difficulties	1.05 ^a	0.01	1.66 ^b	0.10	1.26 ^a	0.12	1.20 ^a	0.10	19*	1, 3, 4 < 2	.03
Social Functioning											
Conflicted Shyness	1.18 ^a	0.02	1.93 ^b	0.10	1.58 ^c	0.19	1.12 ^a	0.13	16*	1, 4 < 3 < 2	.02
Friendship difficulties	0.80 ^a	0.02	1.87 ^b	0.14	1.68 ^{bc}	0.23	1.50 ^c	0.18	43*	1 < 4 < 2	.07
Number of friends	3.07 ^a	0.03	2.09 ^{bc}	0.20	2.63 ^{ac}	0.31	2.15 ^{bc}	0.22	14*	1 > 2, 4	.02
Social impairment	2.10 ^a	0.03	2.97 ^b	0.19	2.90 ^b	0.23	2.91 ^b	0.21	16*	1 < 2, 3, 4	.02
Academics											
Academic impairment	2.15 ^a	0.03	3.23 ^b	0.19	3.86 ^b	0.25	3.17 ^b	0.22	27*	1 < 2, 3, 4	.04
Daily Life Executive Functioning											
Time management	1.08 ^a	0.02	1.99 ^b	0.10	2.52 ^c	0.12	2.17 ^{bc}	0.12	75*	1 < 2 < 3 1 < 4	.11
Self-organization	0.62 ^a	0.02	1.88 ^b	0.11	1.60 ^{bc}	0.14	1.50 ^c	0.13	89*	1 < 2 < 4 1 < 3	.13
Self-restraint	0.90 ^a	0.02	1.73 ^b	0.12	2.09 ^c	0.15	2.54 ^d	0.09	90*	1 < 2 < 3 < 4	.14
Self-motivation	0.82 ^a	0.02	1.68 ^b	0.11	2.12 ^c	0.13	1.75 ^b	0.12	65*	1 < 2, 4 < 3	.10
Emotion regulation	0.83 ^a	0.02	1.65 ^b	0.13	1.88 ^b	0.19	1.93 ^b	0.16	48*	1 < 2, 3, 4	.07

Note. Higher scores indicate greater impairment/poorer functioning with the exception of number of friends. Row means with different superscripts differ significantly at $p < .05$. A Bonferroni correction was not used for the six subsequent tests given the exploratory nature of these tests. ADHD = attention-deficit/hyperactivity disorder. SCT=sluggish cognitive tempo; IN=inattention; HI=hyperactivity/impulsivity.

Table S4

Comparisons of Comparison (n=1,861), SCT (n=53), ADHD (n=93), and SCT+ADHD (n=49) Groups in the Percentages of Comorbid Disorders

Diagnosis	Comparison	SCT	ADHD	SCT+ADHD	χ^2	CV
ADD/ADHD	10.3% ^a	32.1% ^b	46.2% ^b	46.9% ^b	166.8 ^{**}	.29
ODD/CD	1.7% ^a	3.8% ^{ac}	15.1% ^b	10.2% ^{bc}	76.8 ^{**}	.19
Any Anxiety Disorder	5.5% ^a	17.0% ^{bc}	8.6% ^{ac}	26.5% ^b	45.7 ^{**}	.15
Any Depression Disorder	1.8% ^a	7.6% ^{bc}	3.2% ^{ac}	10.2% ^{bc}	22.9 ^{**}	.11
Autism or Autism Spectrum	3.7% ^a	12.3% ^b	10.2% ^b	14.3% ^b	42.5 ^{**}	.14
Reading Disorder	2.0% ^a	1.9% ^{ab}	3.2% ^{ab}	10.2% ^b	15.2 [*]	.09
Language Delay	3.3% ^a	7.6% ^{ab}	5.4% ^{ab}	12.2% ^b	13.5 [*]	.08

Note. Row means with different superscripts differ significantly at $p < .05$. CV = Cramer's V. ADD = attention-deficit disorder; ADHD=attention-deficit/hyperactivity disorder; ODD = oppositional defiant disorder; CD = conduct disorder.

** $p < .001$; * $p < .05$.

Table S5

Correlations of SCT, ADHD-IN, and ADHD-HI Factors with External Correlate Factors

External Correlates	SCT		ADHD-IN		ADHD-HI	
	<i>r</i>	<i>SE</i>	<i>r</i>	<i>SE</i>	<i>r</i>	<i>SE</i>
Oppositional defiant disorder	.54 ^a	.02	.70 ^b	.01	.73 ^b	.01
Anxiety	.70 ^a	.01	.60 ^b	.02	.51 ^c	.02
Depression	.75 ^a	.01	.65 ^b	.02	.46 ^c	.02
Sleep difficulties	.51 ^a	.02	.44 ^b	.02	.30 ^c	.02
Conflicted Shyness	.44 ^a	.02	.33 ^b	.02	.16 ^c	.02
Friendship difficulties	.57 ^a	.02	.57 ^a	.02	.42 ^b	.02
Number of friends ¹	-.43 ^a	.03	-.46 ^a	.03	-.31 ^b	.03
Social impairment	.39 ^a	.02	.46 ^b	.02	.34 ^a	.02
Time management	.59 ^a	.02	.80 ^b	.01	.55 ^a	.02
Self-organization	.72 ^a	.01	.71 ^a	.01	.53 ^b	.02
Self-restraint	.54 ^a	.02	.70 ^b	.01	.70 ^b	.01
Self-motivation	.60 ^a	.02	.79 ^b	.01	.52 ^c	.02
Emotion regulation	.52 ^a	.02	.64 ^{bc}	.02	.57 ^{ac}	.02
Academic impairment	.42 ^a	.02	.58 ^b	.02	.36 ^a	.02

Note. All correlations were significant at $p < .001$. Row correlations with different superscripts differ at $p < .001$. ADHD = attention-deficit/hyperactivity disorder; IN = inattention; SCT = sluggish cognitive tempo; HI = hyperactivity/impulsivity.

¹Number of friends was a single item. All other external correlates were latent variables defined by manifest variables.

Table S6

Associations (d Values and Correlations) of SCT, ADHD-IN and ADHD-HI Factors with Child and Mother Demographic Characteristics

	SCT		ADHD-IN		ADHD-HI	
	<i>d/r</i>	<i>SE</i>	<i>d/r</i>	<i>SE</i>	<i>d/r</i>	<i>SE</i>
Child Characteristics						
White [1] vs. Non-White [0])	.00 ^{ns}	.01	.03 ^{ns}	.01	.02 ^{ns}	.01
Hispanic [1] vs. Non-Hispanic [0])	.00 ^{ns}	.01	-.02 ^{ns}	.01	-.01 ^{ns}	.01
One Parent [1] vs. Two Parent [0]	.00 ^{ns}	.01	.03 ^{ns}	.01	.03 ^{ns}	.01
Child's age	.09 [*]	.02	.05 ^{ns}	.02	-.12 [*]	.02
Mother Characteristics						
Family Income	-.08 [*]	.02	-.10 [*]	.02	-.12 [*]	.02
Mother's Education	-.07 ^{ns}	.02	-.07 ^{ns}	.02	-.12 [*]	.02
Mother's Age	-.11 [*]	.02	-.10 [*]	.02	-.14 [*]	.02

Note. $N = 2056$. The values for White, Hispanic, and two parents are *d* values while the values for child's age, family income, mother's education, and mother's age are correlations.

^{*} $p < .001$. ^{ns} $p > .001$.

