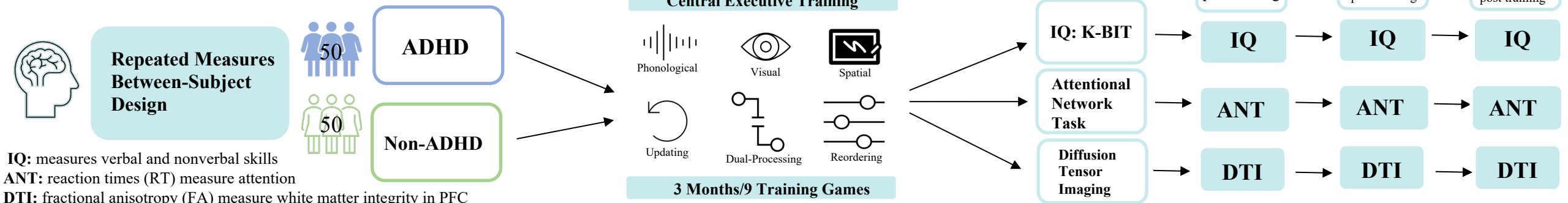


Children diagnosed with ADHD in their early school days fall below average on tasks that require problem solving and effortful-control (Steele et al. 2013; Kofler et al. 2018). These children lack control of their executive functioning (EF), a set of skills that require higher-order processing in the prefrontal cortex (PFC), causing them to fall behind their peers in school (Rueda et al. 2012; Zelazo 2020). Cognitive training programs that target the improvement of EF in children with ADHD have shown remarkable immediate improvements upon academic and behavioral measures (Kofler et al. 2018; Rueda et al. 2012). This research investigates the long-term benefits of early cognitive training for ADHD and non-ADHD children upon academic, behavioral, and white matter integrity measures.



IQ: measures verbal and nonverbal skills
ANT: reaction times (RT) measure attention
DTI: fractional anisotropy (FA) measure white matter integrity in PFC

