## NATURE CAN IMPROVE ACADEMIC OUTCOMES

Spending time in nature enhances educational outcomes by improving children's academic performance, focus, behavior and love of learning.



## SUPPORTING RESEARCH

<sup>1</sup>Lieberman & Hoody (1998). Closing the achievement gap: Using the environment as an integrating context for learning. Results of a Nationwide Study. San Diego: SEER.<sup>2</sup> Chawla (2015). Benefits of nature contact for children. J Plan Lit, 30(4), 433-452.<sup>3</sup> Berezowitz et al. (2015). School gardens enhance academic performance and dietary outcomes in children. J School Health, 85(8), 508-518.<sup>4</sup> Williams & Dixon (2012). Impact of garden-based learning on academic outcomes in schools: Synthesis of research between 1990 and 2010. Rev Educ Res, 83(2), 211-235.<sup>5</sup> Wells et al. (2015). The effects of school gardens on children's science knowledge: A randomized controlled trial of low-income elementary schools. Int J Sci Edu, 37(17), 2858-2878.<sup>4</sup> Li & Sullivan (2016). Impact of views to school landscapes on recovery from stress and mental fatigue. Landscape Urban Plan, 148, 149-158.<sup>7</sup> Wu et al. (2014) Linking student performance in Massachusetts elementary schools with the "greenness" of school surroundings using remote sensing. PLoS ONE 9(10): e108548.<sup>6</sup> Matsucka, R. H. 2010. Student performance and high school landscapes. Landscape and Urban Planning Plan Dia Viture (Tarching Bedralue Bedralu 97 (4), 273-282. 9 Moore & Wong (1997). Natural Learning: Rediscovering Nature's Way of Teaching. Berkeley, CA: MIG Communications. 9 Faber Taylor et al. (2002). Views of nature and self-discipline: Evidence from inner-city children. J Environ Psy, 22, 49-63. "Mârtensson et al. (2009). Outdoor environmental assessment of attention promoting settings for preschool children. Health Place, 15(4), 1149-1157. "Wells (2000). At home with nature effects of "greenness" on children's cognitive functioning, Environ Behav, 32(6), 775-795. "Berto et al. (2015). How does psychological restoration work in children? An exploratory study. J Child Adolesc Behav 3(3). "Faber Taylor et al. (2001). Coping with ADD: The surprising connection to green play settings. Environ Behav, 33(1), 54-77. 5 Amoly et al. (2014). Green and blue spaces and behavioral development in Barcelona schoolchildren: The BREATHE Project. Environ Health Perspect, 122,1351-1358. \* Blair (2009) The child in the garden: An evaluative review of the benefits of school gardening, J Environ Educ, 40(2), 15-38. " Rios & Brewer (2014). Outdoor education and science achievement. Appl Environ Educ Con 13(4), 234-240. \* Bell & Dyment (2008). Grounds for health: The intersection of green school grounds and health-promoting schools. Environ Educ Res, 14(1), 77-90. \* Nedovic & Morrissey (2013). Calm, active and focused: Children's responses to an organic outdoor learning environment. Learn Environ Res, 16(2), 281-295. \*\* Ruiz-Gallardo & Valdés (2013). Garden-based learning: An experience with "at risk" secondary education students. J Environ Educ, 44(4), 252-270.