

**Additional Table 1.** Intervention actions employed in each phase of the Active Brains development process

Phase of Active Brains Development	Intervention development actions as identified by O’Cathain, Croot (1)
Literature reviewing and consultation with multidisciplinary team	1. Identify there is a problem in need of a new intervention 2. Establish and group/set of groups to guide the development process 3. Understand the problems/issues to be addressed 4. Make a decision about the specific problem/problems that intervention will address 5. Identify possible ways of making changes to address the problems
Guiding principles	4. Make a decision about the specific problem/problems that an intervention will address 5. Identify possible ways of making changes to address the problems 7. Consider real-world issues about cost and delivery of intervention 9. Generate ideas about solutions and components and features of intervention 10. Revisit decision about where to intervene 11. Make decisions about format/content and delivery of the intervention
Behavioral analysis and logic model	3. Understand the problems/issues to be addressed 5. Identify possible ways of making changes to address the problems 6. Specify who will change, how and when 7. Consider real-world issues about cost and delivery of intervention 9. Generate ideas about solutions and components and features of intervention 10. Revisit decision about where to intervene 11. Make decisions about format/content and delivery of the intervention 12. Design an implementation plan 17. Document the intervention
Think aloud interviews	13. Make prototypes or mock-ups of the intervention 14. Test on small samples for feasibility and acceptability 16. Optimize the intervention for efficiency prior to RCT
Longitudinal interviews	14. Test on small samples for feasibility and acceptability 15. Test on a more diverse population 16. Optimize the intervention for efficiency prior to RCT

1. O’Cathain A, Croot L, Sworn K, Duncan E, Rousseau N, Turner K, et al. Taxonomy of approaches to developing interventions to improve health: a systematic methods overview. Pilot and feasibility studies. 2019;5(1):41.