

**Program Name:**

**Coding Buddies/Code Club**

Last update:

Aug. 2016

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| **At a Glance** | | | | | | | | |
| Teen volunteers help kids learn basic coding skills as they work through self-directed online modules. | | | | | | | | |
| **Learning Outcomes** | | | | | | | | |
| Participants will:   * Learn and apply basic coding concepts like algorithms, loops, and functions to solve online puzzles. * Demonstrate computational thinking skills such as decomposing, pattern matching, and abstraction.   Teen volunteers will:   * Demonstrate leadership through mentoring. | | | | | | | | |
| **Logistics** | | | | | | | | |
| **Format:** | | **Location:** | **Audience & Max Group Size:** | | **Run Time:** | **Set-up Time:** | | **Clean-up Time:** |
| Library staff supervise teen volunteers working one-on-one with younger participants | | TDC, program room or open area (if using Chromebooks) | Coding Buddies: Grades 1-3  Code Club: Grades 4-6  Max size: 12 participants (plus 12 volunteers) | | 6 weeks,  60 min per weekly session | 15 min | | 10 min |
| **Materials Needed** | | | | | **Alternative Materials** | | | |
| * Computers (PCs or Chromebooks) – 1 for each buddy pair * Pencils or pens * Nametags for participants and volunteers * Beginner and Advanced booklets **(provided)** | | | | | * Branch internet cards (for PCs) * Games from coding bin (optional – if you’re finding kids are finishing too early) | | | |
| **Prep & Set-up** | | | | | | | | |
| * If using a TDC, provide extra chairs (2 chairs per computer) * If using Chromebooks, you will need tables and chairs (2 chairs per computer) * The computers should have the volume turned on (there are videos in the modules). * For each program, make sure you have:   + Chromebooks reserved (if using)   + Participant and volunteer nametags   + Workbooks for each participant (they will leave these behind each time and work through the same one throughout the program)   + Pens or pencils | | | | | | | | |
| **Overall Timing** | | | | | | | | |
| **5 min** – Welcome  **40-45 min** – Buddy work (one-on-one)  **5 min** – Reflection  **2 min** – Wrap-up | | | | | | | | |
| **Sample Schedule** | | | | | | | | |
| **Time:** | **Staff Activity:** | | | **Participant Activity:** | | | **Resource:** | |
| 5 min  *Welcome* | * Welcome children and volunteers as they arrive * Help everyone get set up * Record attendance | | | * Enter the room and find your big/little buddy * Find a computer and the little buddy’s workbook * Find nametags | | | * Workbooks * Nametags * Attendance sheets | |
| 40-45 min  *Buddy Work* | * Circulate to monitor activity and answer questions * Check in with each buddy pair to see how they’re doing | | | * Work one-on-one to complete online modules (as per workbook) | | | * Computers * Workbooks | |
| 5-10 min  *Reflection* | * Let participants know that it’s time to stop and reflect | | | * Finish current puzzle, then complete the reflection portion of that day’s workbook sheet | | | * Workbooks | |
| 2 min  *Wrap-up* | * Thank everyone for coming * Ask for workbooks & nametags * Make sure all the little buddies get picked up by a parent or guardian | | | * Help little buddies find their parents * Return workbooks and nametags to library staff for the next session | | | * None needed | |
| **Observations + Things we want to try next time** | | | | | | | | |
| Record your observations or notes here, then please be sure to pass them on to [Carrie.Kitchen@calgarylibrary.ca](mailto:Carrie.Kitchen@calgarylibrary.ca)  *(What questions did participants ask? Where did they get stuck? What little tweak do you want to try next time?)* | | | | | | | | |
| **Additional Resources for Staff** | | | | | | | | |
| All the following are available on SharePoint at:  [**Service Delivery 🡪 Public Documents 🡪 Coding Programs 🡪 Coding Buddies and Code Club**](http://sharepoint/servicedelivery/Shared%20Documents/Forms/AllItems.aspx?RootFolder=%2fservicedelivery%2fShared%20Documents%2fCoding%20Programs%2fCoding%20Buddies%20and%20Code%20Club&FolderCTID=0x012000AC0FCCE46F7B3B4C977BB347A4CC7491&View=%7b8B0F5ED0%2d11B1%2d450E%2dAE74%2dC75159895D5D%7d)   * Coding Buddies/Code Club Volunteer Handbook * CB/CC Beginner Workbook * CB/CC Advanced Workbook * Staff Checklist | | | | | | | | |