

**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.
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| **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 1-3Code Club: Grades 4-6Max 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)
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| **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
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| **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
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| **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*(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
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