

Code Club Week 2: Thinking like a Programmer

To talk to a computer you need to speak a new language

How computers work: follow precise instructions - worse than Amelia Bedelia

Computer scientists use special codes to tell computers what to do - they make computer languages because machine language is different than human language.

Computer programs are a set of precise instructions the computer knows.

How to think like a programmer:

1. Write an **Algorithm** -
 - a. step by step
 - b. clear idea
 - c. logical order
 - d. specific
2. **Debug**
 - a. happens to every programmer
 - b. fix mistakes
 - c. fix unexpected results
3. Test
 - a. make one change at a time
 - b. try all cases
 - c. try to break it on purpose

Best way to learn: by doing!