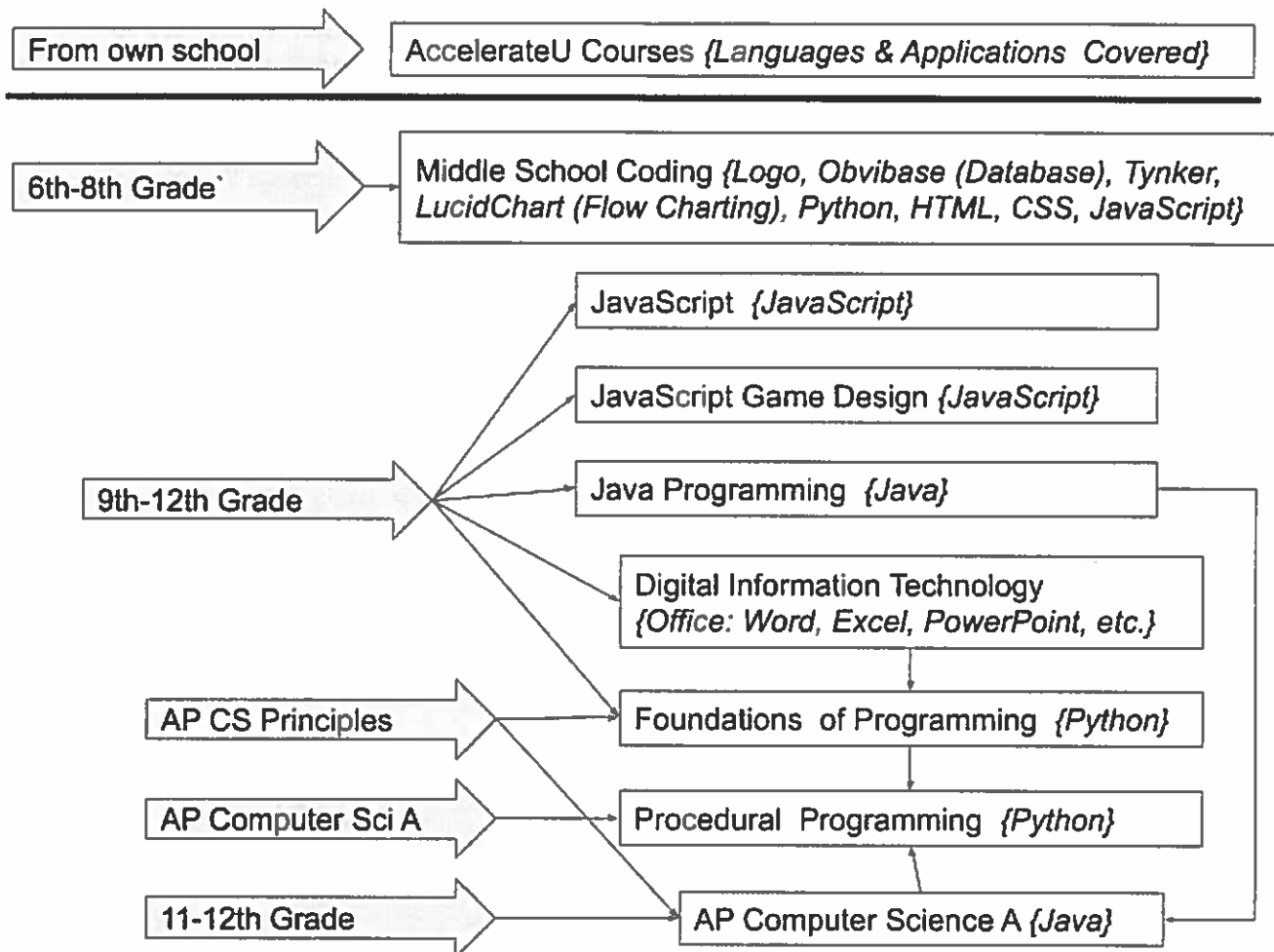The following chart may be helpful in guiding students, parents, and school officials toward our programming and technology offerings:

| From own school | → | AccelerateU Courses {Languages & Applications Covered} |

| 6th-8th Grade | → | Middle School Coding {Logo, Obvibase (Database), Tynker, LucidChart (Flow Charting), Python, HTML, CSS, JavaScript} |

9th-12th Grade →
- JavaScript {JavaScript}
- JavaScript Game Design {JavaScript}
- Java Programming {Java}
- Digital Information Technology {Office: Word, Excel, PowerPoint, etc.}

AP CS Principles → Foundations of Programming {Python}

AP Computer Sci A → Procedural Programming {Python}

11-12th Grade → AP Computer Science A {Java}

To consider when advising students on these courses:
- *Middle School Coding* covers a variety of different environments, but does not go too deep into any one particular programming language. That is, one should not be scared off by the list of languages in the chart above. This course would be great for a middle school student eager to do some programming. Some middle school students have opportunities to work with a robotics club with little formal introduction to coding. This course could provide a deeper dive into programming than the after-school experience provides.
- **The three one-semester courses** (*JavaScript*, *JavaScript Game Design*, and *Java Programming*) are great for a high school student interested in getting some programming not sure if they are ready to commit to a full-year course. The *Java Programming* course is the best course for a younger student thinking about *AP Computer Science A* in the future.
- *Digital Information Technology* is essentially a course on the Microsoft 365 suite--it covers Word, Excel, PowerPoint, and more. This will work well for a student whose school uses

Microsoft 365, but may not work for a student whose school does not subscribe to Microsoft products.

- **The three one-year high school courses**, *Digital Information Technology, Foundations of Programming, and Procedural Programming*, were designed to be a sequence. However, a student does not need to take *Digital Information Technology* before taking *Foundations of Programming*. A student does need a significant programming background before taking *Procedural Programming*. Reasonable prerequisites for this course would include *Foundations of Programming* or *AP Computer Science A*. (Note that *AP Computer Science Principles* is probably not a sufficient prerequisite for *Procedural Programming*.)
- *Procedural Programming* is a high-level Python course, giving students an AP-level course in Python. The current *AP Computer Science A* course uses Java. At this point, colleges are roughly split between using Java and Python in their first course in their computer science major.