IB Computer Science

Student_____

System Development

Date: _____

Systems Implementation

Objectives Phase 6: System Implementation

- Identify the sources for application software and discuss how to select and evaluate commercial software packages.
- Define the software development life cycle (SWDLC) and discuss each phase (briefly); Systems requiring application programs will undergo a Software Development Life Cycle, analogous to the System Development Life Cycle
  - software design
  - software coding
  - software testing
- Understand an Implementation plan that includes:
  - Managing an implementation plan
  - Preparing a site for a technology platform
  - Training (system users, operations, managers)
  - System Documentation
  - System Conversion
  - A post-implementation review

List/describe the 5 common elements to a software testing scenario:

1.

2.

3.

4.

5.

List three levels of errors, and provide examples from the Online Grade Book Project

1.

2.

3.

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Name and describe four software testing strategies

1.

2.

3.

4.

Which one of these testing strategies is considered "unit testing?"

What are the six typical components of an implementation plan?

1. Managing an implementation plan
2. Preparing a site for a technology platform
3. Training (system users, operations, managers)
4. System Documentation
5. System Conversion
6. A post-implementation review

Managing the Implementation Project

- Next year we will talk about project management, the uses of project management software such as Microsoft Project, and the details of defining and managing a sequence of tasks. There are graphic organizers/charts for identifying tasks, their predecessor tasks, their successor tasks, the resources required to complete a tasks, and learn some important project management concepts and tools.

Two (big) steps for Systems Implementation:

1. Planning – determine the systems implementation tasks are to be performed, and when

2. Executing – performs each implementation task

Preparing a site for a technology platform

New equipment must be house in an environmentally appropriate save and well-controlled areas. The site should be prepared prior to the equipment arriving.

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Training (system users, operations, managers)

Describe several types of user training:

System Documentation

List and describe four types of Systems Documentation
1.

2.

3.

4.

System Conversion

What is meant by Systems Conversion?

What are four methods for converting systems?
1.

2.

3.

4.

Topics for next year include methods for converting existing data files

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A post-implementation review

What is a post-implementation review?

Four post-implementation review areas:

1. Systems Factors
2. System Design Components
3. Estimates
4. Level of Support

