

Teaching Block 4

- Numbers

- ** `Math`, `Random`, `Number`
 - ** `static`, `final`: variables, methods, classes
 - ** Wrapper classes, Autoboxing, Recursion

- Exception handling

- ** checked and unchecked exceptions
 - ** `try`, `catch`, `finally`, `throw`, `throws` keywords
 - ** declaring and catching exceptions
 - ** assertions

- File I/O

- ** saving data: serialisation versus saving to files
 - ** Java input/output streams
 - ** `java.io` package: classes `File`, `(Buffered)FileReader`, `(Buffered)FileWriter`
 - ** reading data from/writing data to text file

- Collections and Sorting

- ** `ArrayList`, 2D arrays, `Iterator`
 - ** bubble sort, insertion sort
 - ** `Comparable` interface



Use this as a **checklist** of the topics/concepts you are expected to learn.