Note: this is not meant to be an exhaustive list. This is meant to give you a starting point and some directions to study. You can (and should!) also review your old quizzes, pre-class exercises, end-of-chapter problems, homeworks, etc.

**Robot basics:**
- How do robots manipulate their environment?
- What is the difference between effectors and actuators?
- What role do sensors play in the field of robotics?
- What is an android? A cyborg? What is the difference?

**History of robotics:**
- What are some famous automatons we discussed? What was the "digesting duck?"
- What was "telautomatics?"
- Where did the term "robot" originate?
- What is the difference between autonomous and teleoperated robots?
- What is "Unimate"? Why is it significant?

**Robots in space:**
- List some reasons why robots are ideal for space exploration.
- List some tasks robots could do in the course of space exploration.
- Why is teleoperation of robots in space from earth problematic?
- What are the differences between an orbiter, a lander, and a robot in terms of missions to Mars?
- What were some design challenges faced by NASA in the course of developing Spirit and Opportunity (and now Curiosity)?

**Programming:**
- What are the different types of languages a computer can understand?
- What is the difference between a compiled and interpreted language? Which type is Python?
- What is a variable?
- What is a value?
- Write expressions using variables and values.
- Mathematical operators: + - * / ** %
- What is concatenation? How do you concatenate two strings?
- What are comments? How do you write them? Why do you use them?
- Functions. Why do you use functions when programming? How do you define them? How do you invoke/call them?
- What are parameters? How do you use them in a function? Why would you use them in a function?
- What are return values? How do you use them in a function?
- What is the difference between a print statement and a return statement?