

### Questions over 1<sup>st</sup> day lecture

- What is the “number” and name of this course?
- What is the title of our book? Who is the author?
- What is your instructor’s name?
- When are the office hours?
- What is the TA’s name? When are his office hours?
- Who should come in for help during office hours?
- What is the purpose of a theory?
- What are characteristics of a good theory?
- Explain what it means to say:  
The exception proves the rule.
- What is Occam’s Razor?
- What are deduction and induction?

### Chapter 1 Review

- What are the most abundant gases in the Earth’s atmosphere?
- What is meant by the term “trace gases”?  
Why do we care about trace gases?
- Name the planets in order going out from the Sun.
- What is the biggest difference between the innermost 4 planets and the next 4 planets?
- What seems to be the origin of the Earth’s atmosphere?
- What has been happening to the amount of CO<sub>2</sub> over the last 50 years? What is happening to the amount of ozone in the stratosphere?

### Chapter 1 Review

- What is density?
- What is pressure?
- What are some common units for measuring pressure?
- How do pressure and density change with increasing height? Why?
- How does temperature change with increasing height? Why?
- What are the names of the 4 main layers of the atmosphere. What are the names for the boundaries between layers? What determines when one layer stops another begins?

### Chapter 1 Review

- What measurements does a weather balloon make?
- Where is the closest place to us that weather balloons are launched?
- What is the difference between weather and climate?
- Who coined the word “meteorology”?
- How was Galileo important for meteorology?
- What technical advances have helped meteorology?
- Which is usually bigger: a mid-latitude storm or a hurricane? A thunderstorm or a tornado?
- In the US, which of these kills the most people and which kills the least: hurricanes, floods, heat waves?