Please answer the following questions - (limit answers to 1-4 sentences, only general answers required):

1. What kind of science could you do inside a 20 cm box that can hold 1 kg?
2. What kind of experiments could you conduct at an altitude of 30 km?
3. What type of sensors would you need?
4. How much would they cost?
5. What would you need record/store your data?
6. How much would your experiment weigh?
7. What materials would you use to construct your experiment structure?
8. How much power would your sensors require?
9. How would you control your experiment?
10. How could you keep your experiment safe from condensation?
11. How would you keep your experiment watertight?
12. How could you keep your experiment warm?
13. What is SparkFun?
14. What is an Arduino Uno?
15. What is a capacitor?
16. What is a resistor?
17. What is a diode?
18. What is transistor?
19. What is a voltage regulator?
21. **Skim, DO NOT READ**, Chapter 8 of Paul Verhage’s *Near Space* book downloaded from the class website. Use this as an additional source for BalloonSat ideas. Read as much as you want on any idea you find of interest.

Please include any web addresses you use to answer the questions above (Does not have to be all websites used).