ST/Ste Final HW Based on Loose Bits

ST

Guiding Controls

- 1. What is the guiding control for a sliding patio door?
- 2. What is the guiding control for the front wheel on a bicycle?
- 3. What is the guiding control for the screw on a clamp?
- 4. Match each of the above controls with the following:
 - A) Translational guide
 - B) Rotational guide
 - C) Helicoidal guide

<u>Glaciers</u>

- 5. What causes a glacier to form?
- 6. A) What happens to the level of the sea when many glaciers slideinto it?
 - B) What happens to the level of the sea after many icebergs melt. (Remember an iceberg is already in the water)

STE

Buffering Capacity of Soil

- 7. What is a buffer?
- 8. What happens to soil with a good buffering capacity if a small amount of acid is added to it?

Reading Resistance Charts

Use the chart to find the resistance, if on a resistor, you have the following lines:

9.



Appendix 4

Resistor Colour Chart

Colour	Black	Brown	Red	orange	Yellow	Green	Blue	Purple	Grey	White
Digit	0	1	2	3	4	5	6	7	8	9
Multiplier	10°	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	10 ⁷	10 ⁸	10 ⁹

- a) red-orange-yellow.....brown......
- b) orange-black-black.....orange.....
- c) brown-yellow-black......yellow......