

## St Homework

Name \_\_\_\_\_

1. a. List the two main gases that cause global warming.

Carbon dioxide (CO<sub>2</sub>) and methane(CH<sub>4</sub>)

- b. What human activities release these gases in large quantities?

CO<sub>2</sub> = fossil fuel combustion

CH<sub>4</sub>= agriculture

2. Use 2 diagrams to explain what is meant by the greenhouse effect.

- The first diagram should include a sketch of the earth and the gases that cause global warming.
- The second diagram should include a diagram showing how an actual glass greenhouse traps heat.
- Then include a written explanation of what you've drawn.

See notes. You drew the same diagrams. Practice redrawing it.

3. What evidence do we have for global warming? Mention data from both the recent and distant past.

To see nearly complete evidence go to <http://www.ncdc.noaa.gov/indicators/>

4. How is global warming a threat to society?

It could cause flooding, severe storms and impact agriculture

5. Explain how we can fix the problem. Include two solutions that do not involve a change in lifestyle.

Filters to remove carbon dioxide emissions

More hydro, solar and wind power

Conserve energy

## Glaciers

1. What causes a glacier to form?

As snow accumulates the pressure from the weight of snow above causes melting and subsequent freezing of the lowest layer. The whole mass then slides, carving its way through rock.

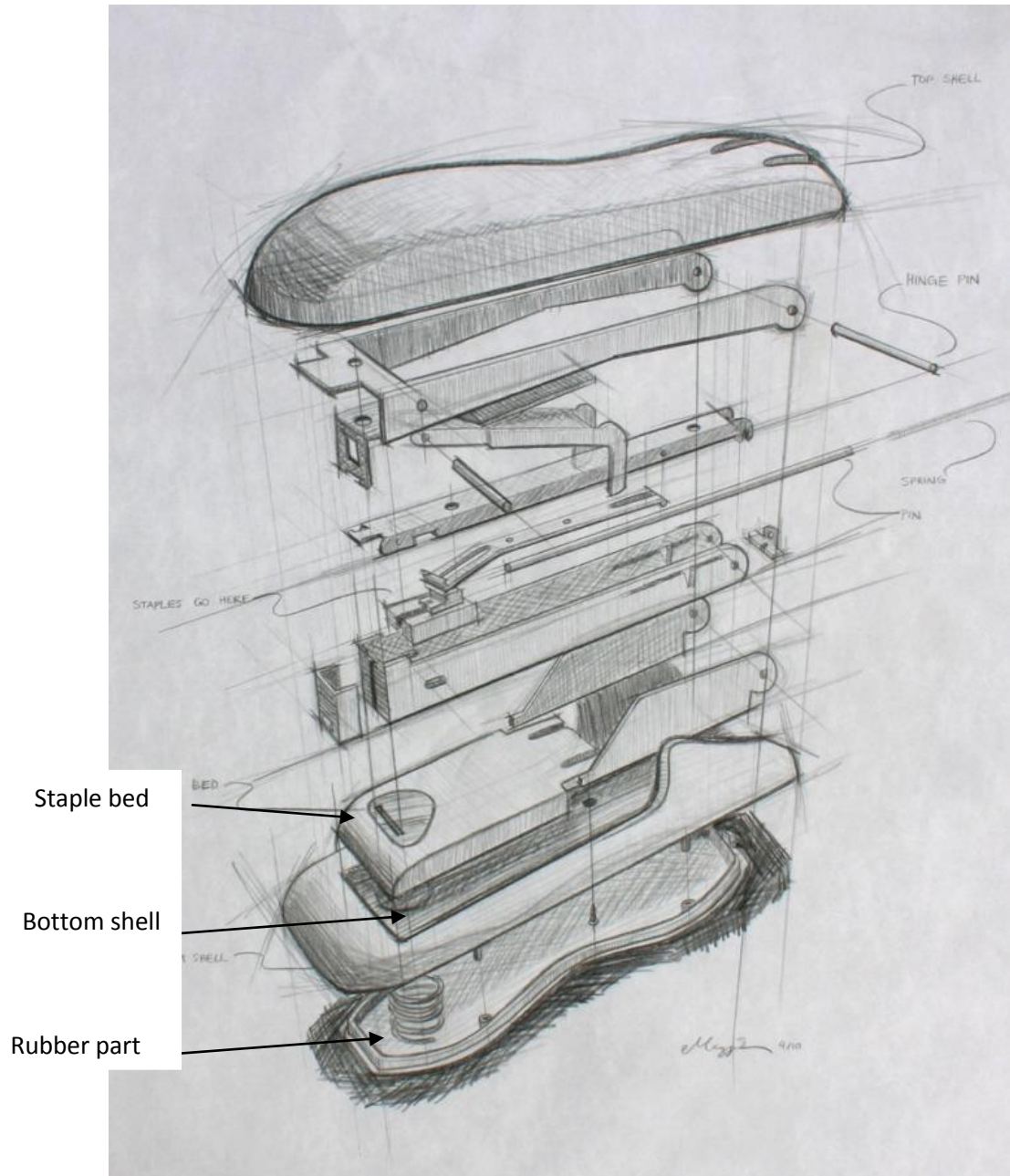
2. A) What happens to the level of the sea when many glaciers slide into it?

3. It goes up slightly as soon as the solid makes contact with the water, just as when you add an ice cube to water.

B) What happens to the level of the sea after many icebergs melt? (Remember an iceberg is already in the water)

Nothing. When ice melts its volume shrinks, so that water simply takes the room of the amount of water that had already been displaced by the iceberg.

6. a) Is the link between the rubber part and the bottom shell direct? Or indirect? indirect  
 because of the screw  
 b) Is it removable? yes  
 c) Is it flexible? yes. It's rubber  
 d) Is it complete? Or Partial? complete



- e) Is the link between the staple bed and the part above complete or partial? partial.  
 f) Why? The part above can move up and down while the staple bed stays put.