V.	<u>Correlation</u>
	a. <u>Correlation</u> - matching similar rock strata in different location
	to see if they formed at the same time or under similar conditions.
	i. Malking the outcrop at an exposed outcrop (cliff of rocks).
	1. It is often possible to follow a rock layer by walking from one end to
	another.  ii. $1000000000000000000000000000000000000$
	period of time, found over a large area and are easily recognizable.  iii. Volcanic ash
	1. Some volcanoes erupt $e \times plosively$ and leave a layer of
	volcanic ash over a large area.
	2. A single layer of ash that can be found over a <u>large</u> area
	allows geologists to make remarkable correct time correlations from
	one location to another.
VI.	Geologic Time  a. Geologic time is based on $\frac{1}{10000000000000000000000000000000000$
	a. Geologic time is based on $+055$ life forms and rock layers to correlate
	(match) the bedrock.
	o. impact events - (meteors hitting the ground) have been
	correlated to mass extinction and global climate change.  The Earth's early atmosphere formed as a result of outgassing gas was
	c. The Earth's early atmosphere formed as a result of OUTGOSSIVI gas was
	produced from chemical processes).  I. The Earth's ocean formed as a result of precipitation of millions of years.
	The evolution of life caused dramatic above in the evolution of life cau
	2. The evolution of life caused dramatic changes in the composition of the Earth's <u>atmosphere</u> .
	is the process of mountain building.
	- Process of mountain building.
VII.	Evolution of Life
	. Scientists are not yet sure of how life began.
	o. The first organisms lacked <u>hard</u> parts are were not preserved.
	i. In time, more <u>complex</u> life forms developed (many had skeletons and shell
	that were preserved).
	l. Because most individual organisms decompose or are <u>eaten</u> by other
	organisms – few leave fossil remains. As a result – many life forms will never be
	known.
	Heterotroph Hypothesis – theory of how life began
	<ol> <li>First organisms were globs of chemicals that combined together. Did not make their own food.</li> </ol>
	ii. Then chemical combined to use sunlight – autotrophs iii. Made a lot of _ O×ソ ge ロ
	iv. Allowed for $6 \le e \times na$ reproduction
	v. Allowed for <u>Variation</u> (mutations and variations)
	(mamions and variations)