Decoding the Weather Machine Questionnaire

1.	of the 10 hottest years on record have occurred within the			
	last decade.			
2.	Climate change is increasing the risk, or probability, of certain types of			
	extreme weather events. TRUE OR FALSE?			
3.	Fossils of have now been found in places that are			
	famous for ice and snow, like Alaska.			
4.	Evidence points to the burning of as one possible			
	cause of climate change.			
5.	The four major components of the planet are:			
	a			
	b			
	C			
	d			
6.	Tyndall's experiment revealed that was one of the			
	main gases that trapped heat, while nitrogen and oxygen did not.			
7.	This gas, and other gases in the atmosphere that trap heat are referred to			
	as			
8.	Coal and oil are made mostly of			
9.	The zigzags of the measurements are not a fault in the equipment, but			
	rather a reflection of the changes in carbon dioxide in the air during the			
	changing			

10	.The measurements from I	NOAA site in Hawaii has	s been compiled to form	
	the	curve.		
11	.Gas bubbles trapped insid	e of ice in	can be sampled	
	and analyzed to tell us wh	at the carbon dioxide o	conditions were like in the	
	atmosphere hundreds and	d thousands of years ag	0.	
12	.The colder the seawater, t	the more	that is encoded	
	into the clam shell.			
13	cor	es allow us to measure	the earth's climate going	
	back tens of millions of ye	ars.		
14	and		reflect a similar	
	relationship and change re	oughly about the same	time.	
15	.Molecules with the same	number of protons, but	t different numbers of	
	neutrons are called what? (not in the video):			
16	.Greg's plane is able to me	asure the chemical ma	keup of	
	using laser sensors as they	fly over the forest.		
17	are	able to hold onto and	store approximately 25%	
	of the excess carbon we'v	e released into the atm	osphere, which explains	
	why things are not worse	in our atmosphere toda	ay.	
18	.The	are also helping by sto	oring carbon and absorbing	
	heat from the atmosphere	2.		
19	floats	are used to take all kind	ds of measurements within	
	the deep ocean, including	the chemistry and tem	perature of the ocean.	
20	.If the ocean has warmed a	about half a °F, that tra	nslates to about a	
	degree cl	nange in the atmosphe	re.	

21. The Jakobshavn ice stream is the fastest glacier in the world and is draining						
vast amounts o	f ice from the	ice sheet.				
22.For glaciers in c	ontact with the ocean,	wa	ter coming			
underneath a g	lacier destabilizes it and cau	uses it to melt and f	racture.			
23.There is approx	imately	feet of sea level	rise locked			
up in the Green	land ice sheet.					
24.There is approx	imately	feet of possible	sea level rise			
locked up in the	e Antarctic Ice Sheet.					
25.Fossils of ancient are found in rock cores in Australia,						
which explains that that entire landscape was once underwater.						
26.The fossil record	26. The fossil record demonstrates that sea levels could rise up to					
feet higher tha	an they are today.					
27.The Marshall Isl	27. The Marshall Islands are experiencing effects of sea level rise, eventually it					
will get to the p	will get to the point where they can no longer live there, causing them to					
have to leave th	neir homes and become		refugees.			
28.A	tide is one of the	year's highest tides.				
29.According to re-	tired admiral Ann Phillips, c	climate change is a				
issue. It is a threat magnifier.						
30.Scientists are us	sing a virtual earth to create	e	models			
to predict the fu	uture.					
31.We are making	31.We are making a lot of progress at making better predictions, but there is					
an enormous ar	mount about the	that w	e don't fully			
understand.						
32.If we want to minimize suffering we need to we need to maximize						
mitigation and						

33.Coral reefs support about% of all marine life in the sea.					
34.If the coral is to survive, it	: must	·			
35. Whirlpool started to investigate harvesting power in					
order to decrease their er	nergy uses at	their factory.			
36 tec	chnician is or	e of the fastest grov	wing professions		
in America.					
37. Fossil fuels still account fo	or	% of the wor	ld's total power.		
38.In order to help the problem, we can't just go zero emissions, but					
emissions.					
39.A very simple way to remove carbon dioxide from the air is					
40.Not	_ the soil in	a field on a farm hel	ps the soil remain		
healthier and helps it absorb more carbon.					