Discussing Science and Change



Name _____Hour ____

This assignment requires some assistance from a parent or another adult who knew you as a child. (If you are unable to work with an adult who knew you as a child, you may choose any adult with whom you feel you can have a safe conversation.)
Answer question #1, and then find an adult with whom to work through the remaining steps.
1. Summarize the key ideas related to the nature of science from our class discussion. Make note of any changes in your understanding of science. What have you learned from class discussions?
2. Find an adult to work with you. Take a few minutes to share the summary you wrote above with him or her. Ask him or her what information was new to him or her—what did he or she learn from your summary?
3. Share some examples with your adult conversation partner of scientific ideas that have changed over time (e.g., the sun or the earth as the center of the solar system; the discovery that combustion involves oxygen, not "phlogiston"; the discovery, in the 20 th century, that the continents drift).
Then ask the adult to think about any scientific ideas that he or she thinks have changed within his or her lifetime—is there anything he or she was taught in school that is no longer regard-

ed as true? Has anything changed, for example, in the way we view household chemicals, or

Record here what he or she shares. Remember, sometimes scientific ideas are completely replaced with new ideas, and sometimes they are simply refined as new information is gathered.

Together, can you come up with an example of each type of change?

human effects on the environment?

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•	adult conversation partner, om a famous scientist. For			each of the follow-
,	nat does this quote imply ab gness to accept changes ir			t the scientist's
,	nat virtue or virtues does the What kind of person does it			entific pursuits?
• "For I am n them." – Co	ot so enamored of my own opernicus	opinions that I di	sregard what other	s may think of
• "If I have so - Sir Isaac	een further than others, it is Newton	because I have	stood on the should	ders of giants."
faith and the	with your adult conversation ology that you or your conv ose one example for each o	ersation partner	once thought corre	
Have your a	dult conversation partner co	omplete the section	on below:	
I discussed t notes are a f	these questions with air reflection of my contribu	tions to the conv	(name of student), ersation.	and I think his/her