

## Week 2 Journal Entry

The principles of science relate to cybersecurity in that social sciences can be applied to understand cybersecurity and it relies on the same principles as the natural sciences. Objectivity relies on understanding an issue without trying to promote an agenda while conducting research to gain knowledge on how to address any problem. Parsimony dictates that explanations should be kept as short and understandable as possible even though the issues can be complex at times. Empiricism applies in the fact that knowledge must come from experience. Empirical research has helped in disaster planning efforts (National Academies of Science, 2019). Determinism implies that events that occur are caused by preceding events. Determinism is valuable when working to better secure networks to prevent attacks and look for loopholes that can be used. Skepticism requires that everything be questioned and investigated rather than believed. This is valuable when understanding why a system was hacked and how the hack occurred, and then how to prevent it. Intelligence analysts are making use of this as well when looking at biases in the data they collect to solve different issues in relation to disinformation (National Academies of Science, 2019). Relativism dictates that everything is connected, and with cybersecurity, the influence that is exerted is broad and far reaching, and a lapse in cybersecurity is going to impact other areas of society, like economics and national security. Lastly, Ethical neutrality requires scientists to responsibly conduct research and experiments. Rather than using these principles in the same way they are used to understand natural science, social science uses them in a way to understand the human factors involved with cybersecurity and how to implement preventative measures and better understand motives.

## References

National Academies of Science. (2019, March 5). *A decadal survey of the Social and Behavioral Sciences: A Research Agenda for Advancing Intelligence Analysis*. A Research Agenda for Advancing Intelligence Analysis | The National Academies Press.

<https://nap.nationalacademies.org/catalog/25335/a-decadal-survey-of-the-social-and-behavioral-sciences-a>

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