

**NAME:** \_\_\_\_\_ Falsifiability, causality and measurement worksheet

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1. Discuss the falsifiability of the following statements. Justify your answer. If falsifiable, say what hypothetical observation would disprove it. To help you answer some, search in wikipedia what are the Kant antinomies. Remember that falsifiable doesn't mean false.

"The sun rises everyday"

"The dog is either brown, or the dog is not brown."

"All dogs are brown."

"There's nothing you can do that can't be done. There's nothing you can sing that can't be sung" - The Beatles

"The undecideds could go one way or another." - George H. W. Bush

"All human actions are egotistic, motivated by self-interest"

"There is no Spontaneity; everything in the world takes place solely in accordance with laws of nature." - Kant antinomy

"There belongs to the world, either as its part or as its cause, a being that is absolutely necessary." - Kant antinomy

"Spaniards are very spanish" - Spanish ex-president M.Rajoy

- Do the same for the following: Road conditions, average speed, danger level, number of fatalities, number of journeys, weather, season.

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5. Imagine we are dropped from an airplane into a desert island with nothing more than a piece of cloth. If we wanted to design a system for measuring lengths to start organizing people for building a shelter, what could we choose as a pre-established unit of length? Think about two different possibilities and discuss the advantages and disadvantages of using either one.