

Wording of research Q, hypothesis, & predictions

Research Question:

Why does the the flashlight not work?

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Why does the the flashlight not work?

Hypotheses:

1. The flashlight doesn't work because the bulb is broken.
2. It doesn't work because the battery is dead.

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Research Question:

Why does the the flashlight not work?

Hypotheses:

1. The flashlight doesn't work because the bulb is broken.
2. It doesn't work because the battery is dead.

Predictions:

1. If I replace the bulb, then the flashlight will turn on as normal (supporting H1)
2. If I replace the battery, then the flashlight will turn on as normal (supporting H2)

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Research Question:

How does poor sleep affect productivity?

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Research Question:

How does poor sleep affect productivity?

Hypotheses:

1. Poor sleep reduces productivity by inhibiting decision-making and focus.
2. Poor sleep sometimes increases productivity, if driven by manic episodes.

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Research Question:

How does poor sleep affect productivity?

Hypotheses:

1. Poor sleep reduces productivity by inhibiting decision-making and focus.
2. Poor sleep increases productivity, if driven by manic episodes.

Predictions:

1. If subjects sleep fewer than 7 hours, they will experience scattered thoughts and bring fewer tasks to completion the following day (supporting H1)
2. If subjects sleep fewer than 7 hours because of diagnosed mania, they will have greater focus and bring more tasks to completion (supporting H2)