

Some people are studying the following topics and going to have some tests with 2 sets on each of them. Decide whether the factors stated are **independent variables**, **dependent variables** or **controlled variables** and write their letters into the correct positions of the tables.

1. “Which drink melts faster from ice to liquid?”

- A. Amount of ice
B. Types of drinks
C. Size of the glasses
D. Room temperature
E. Time taken for ice melting
completely

Independent variables (What you should change)	Dependent variables (What you should measure)	Controlled variables (What you should keep the same)

2. “How does phone use before bedtime affect sleep?”

- A. Number of hours of sleep
B. Amount of light
C. Time use of phones before sleep
D. Quality of sleep

Independent variables (What you should change)	Dependent variables (What you should measure)	Controlled variables (What you should keep the same)

Can you think of any other controlled variables that should be kept the same on each set?

3. “Does switching a fan on while using air-con get the room cooler?”

- A. Fans on or off
B. Temperature and power level
of air-cons
C. Model types of air-cons
D. Positions of temperature
measuring
E. Room temperature change
F. Time of recording

Independent variables (What you should change)	Dependent variables (What you should measure)	Controlled variables (What you should keep the same)

Do you have any other suggestions to keep the experiment fair?
