SiQuENC cribsheet | solution for _____

SiQuENC is a mnemonic for remembering steps (mainly steps that have been promoted by van Heuvelen, Etkina, and Larkin, among others) for using multiple representations.
D. Liao, "A SiQuENC for solving physics problems," *Phys. Teach.*, **56**, 264-265 (April 2018) doi:10.1119/1.5028250.

Neatly and graphically represent **si**tuations	Graphically represent **qu**antities	Identify allowed starting point **(in)e**quations

R Indicate and walk through relevant **relationship(s)** from allowed knowledge
E Indicate quantities that are **equal** and why they are equal
A Indicate quantities that are **altered or different** and why they are altered or different
So **So what?**
N Is there any quantity to analyze **next**?

The steps in REASoN correspond to steps in the claim-evidence-reason (CER) model of scientific explanations, which is itself an adaptation of Toulmin's model of arguments.

K. McNeill, D. Lizotte, J. Krajcik, and R. Marx, "Supporting students' construction of scientific explanations by fading scaffolds in instructional materials," *J. Learn. Sci.* **15**(2): 153-191 (2006) doi:10.1207/s15327809jls1502_1.
S. Toulmin, *The Uses of Argument*, Updated edition (Cambridge University Press, Cambridge, 2003).

Analyze (which does not mean just plug and chug)	**Communicate**