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For the purposes of this study, the macroscale representation of objects, phenomena, and manipulations is on the human scale (i.e. observed or experienced through sight, hearing, touch, etc.) and ...

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### **MULTIPLE REPRESENTATIONS IN CHEMICAL EDUCATION**

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Doing so involves making use of three types of representation: the macro (the empirical properties of substances); the sub-micro (the natures of the entities giving rise to those properties); and the symbolic (the number of entities involved in any changes that take place).

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