

# The 3 Dimensions of #MakerEd

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## 001. MAKING

Participate in a set of activities (Halverson & Sheridan, 2014). Play without a goal (TED, 2011). Remix with bricolage (Ferguson, 2010). Discover through interaction and immediate feedback (TEDx, 2013). This is Dialectical Constructivism: knowledge lies in the continual interaction between the individual and the environment (O'Donnell, 2012).

## 002. MAKERSPACE

Join a community of practice, a place of discourse and learning (Halverson & Sheridan, 2014). Find an affinity space where everyone creates (Gee, 2004). Get up and move around (Edutopia, 2013). Share tools, tutor peer-to-peer, and scaffolded learning (TED, 2011). Work in a space that is flexible (Barrett, Zhang, Moffat, & Kobbacy, 2013) and able to be quickly reconfigured (Cannon Design, VS America, & Bruce Mau Design, 2010). This is Exogenous Constructivism: knowledge is derived from the environment (O'Donnell, 2012).



## 003. MAKER

Form your identity (Halverson & Sheridan, 2014). Grow in confidence and agency (TEDx, 2013). Be a driver not a passenger; figure out how by getting your hands on it (TED, 2011). Reflect on experience and articulate learning (Evans, Norton, Chang, Deater-Deckard, & Balci, 2013). This is Endogenous Constructivism: knowledge develops through a process of adaptation (O'Donnell, 2012).



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