

## Comp Thinking Practices

ccp1 - connections between comp concepts

ccp2 - creative problem solving/developing comp artifacts

ccp3 - abstraction to develop models, make predictions, analyze validity

ccp4 - develop artifacts that solve problems; analyze solutions

ccp5 - communication skills

ccp6 - teamwork skills

## Big Ideas

bi1 (ccp2) - use cs tools/techniques to create interesting/relevant artifacts

bi2 - using multiple levels of abstraction to understand problems/solutions

bi3 - extracting information/knowledge from huge amounts of data

bi4 - develop/express algorithms, implement as program, analyze math'ly & empirically

bi5 - how programs express human intentions as comp artifacts

bi6 - how internet operates, characteristics of internet systems, security concerns

bi7 - how comp enables innovation, potential benefits and harmful affects

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bi6	linear encryption, watermarking, digital signatures,	
bi7	implications of uses of methods to promulgate outcomes negative for society	

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