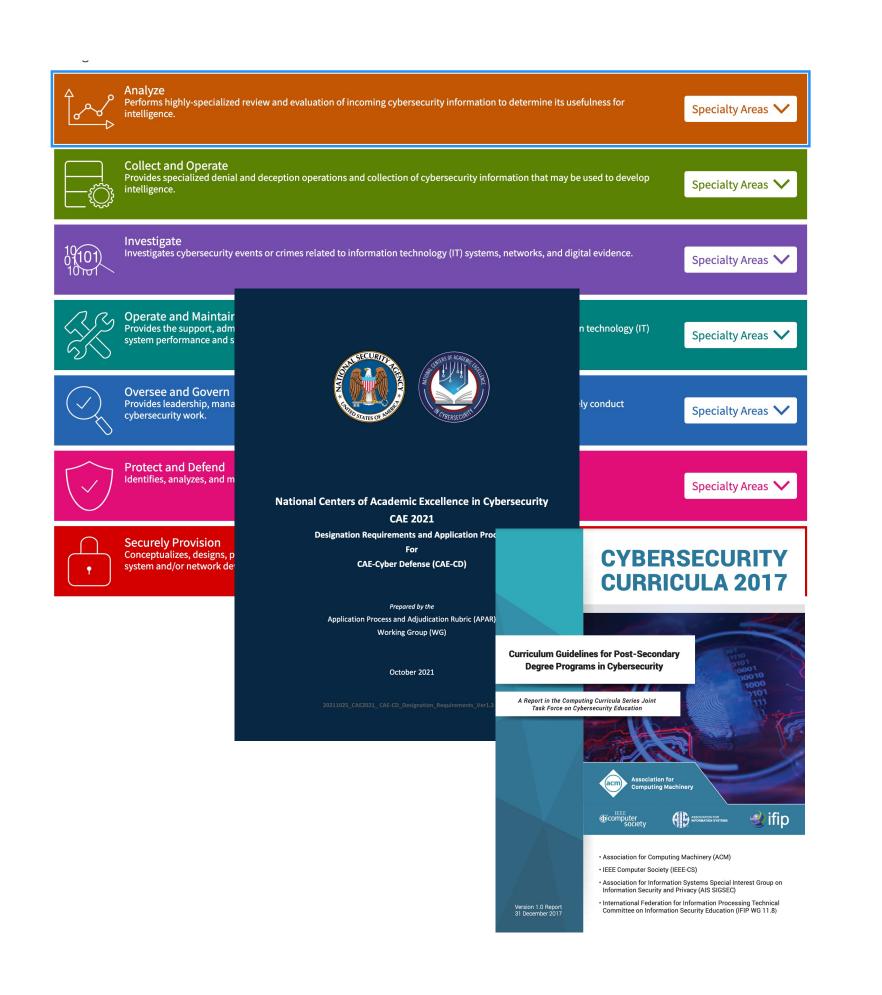
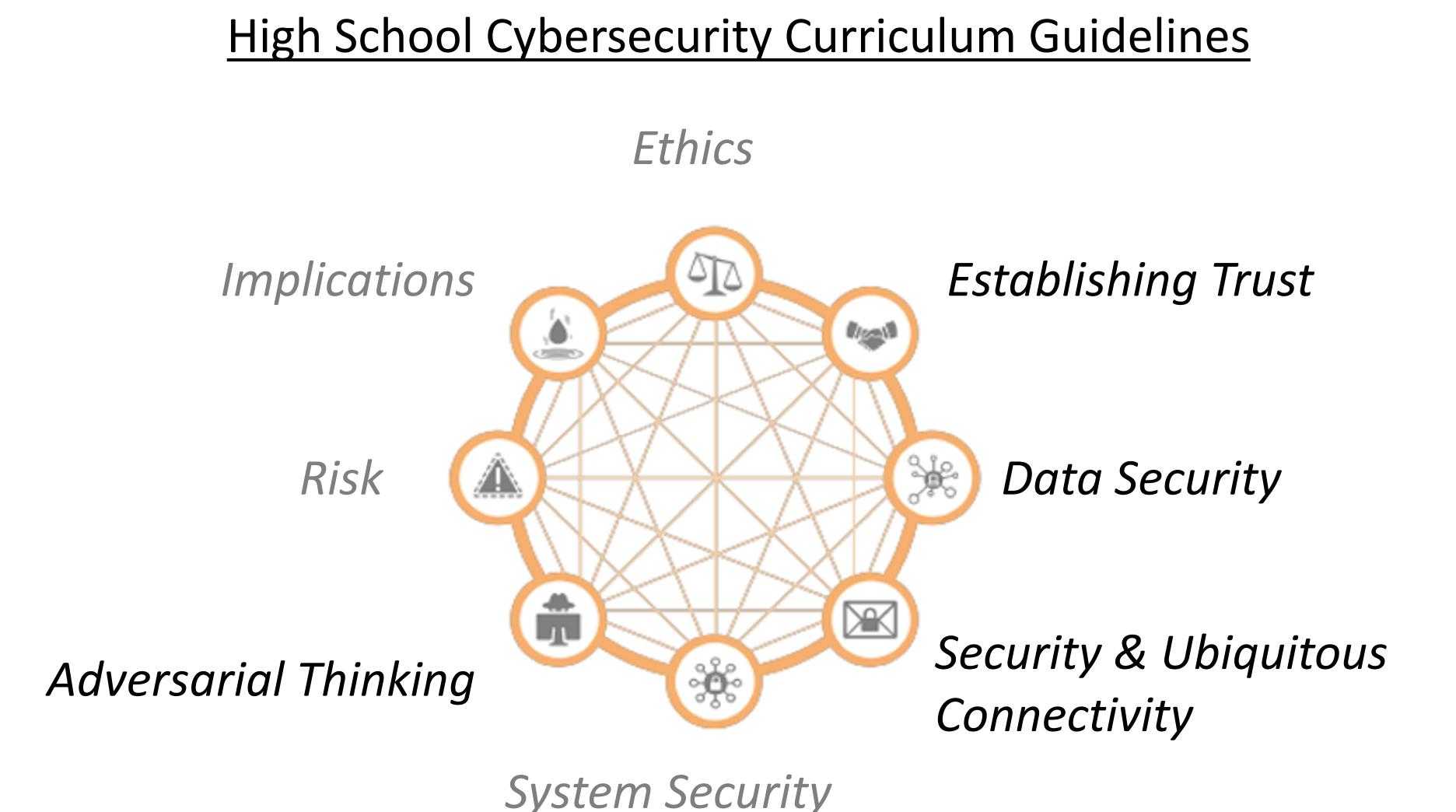


ARC - Assessment Resources for Cybersecurity SaTC-EDU

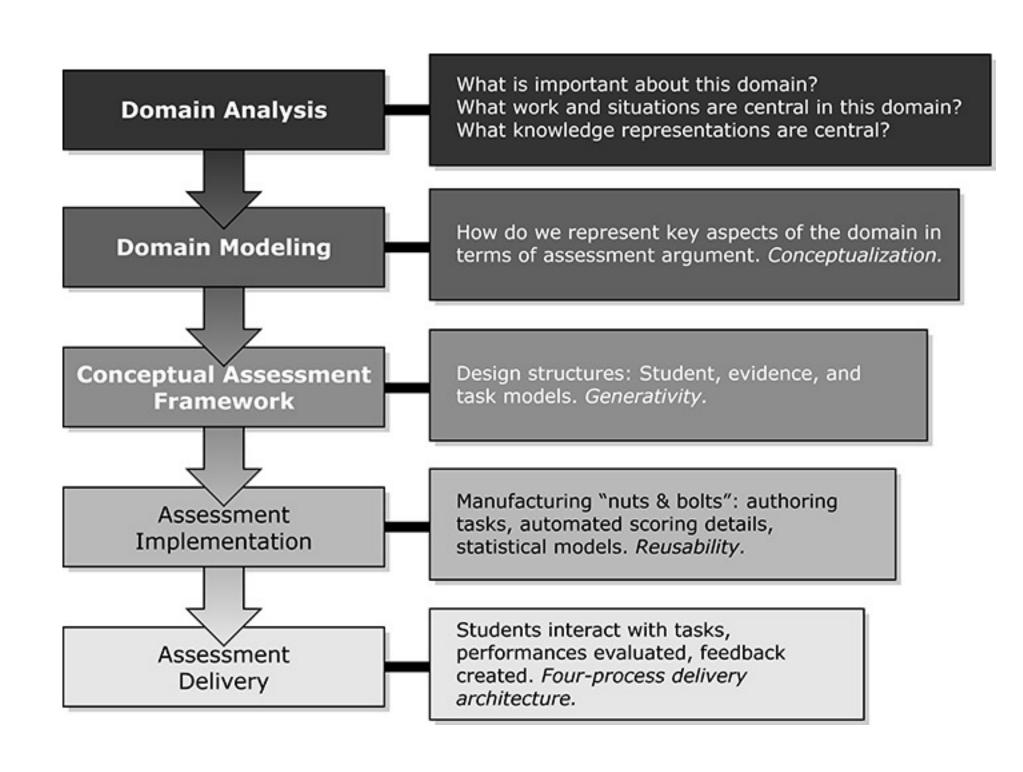
Melissa Dark and Jenny Daugherty, DARK Enterprises (non-profit)

Need: Cybersecurity education has grown across higher education for 25 years and is now growing at the high school level. Quality high school cybersecurity education needs excellent curriculum, trained teachers, and **valid/reliable assessment**. This project will 1) create a bank of cybersecurity assessment items, and 2) pilot test the items with high school cybersecurity educators.





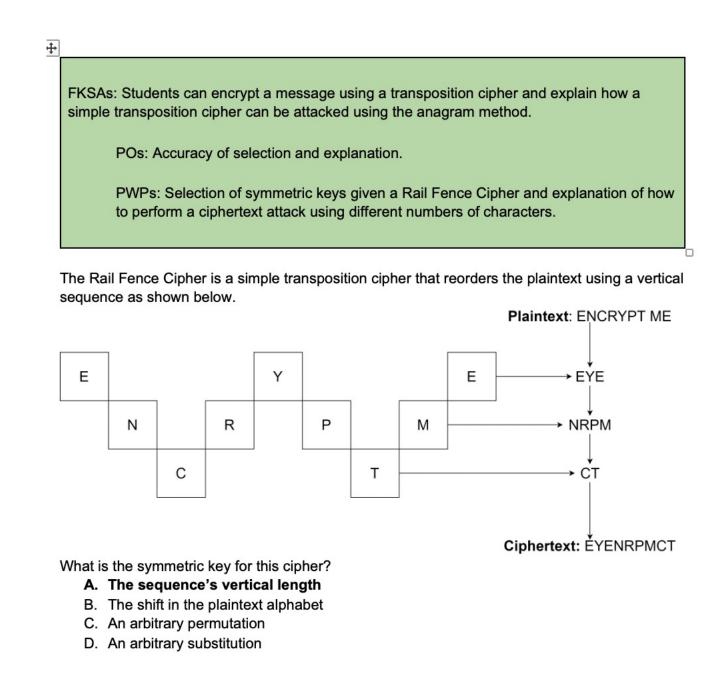
Methodology Evidence-Centered Design



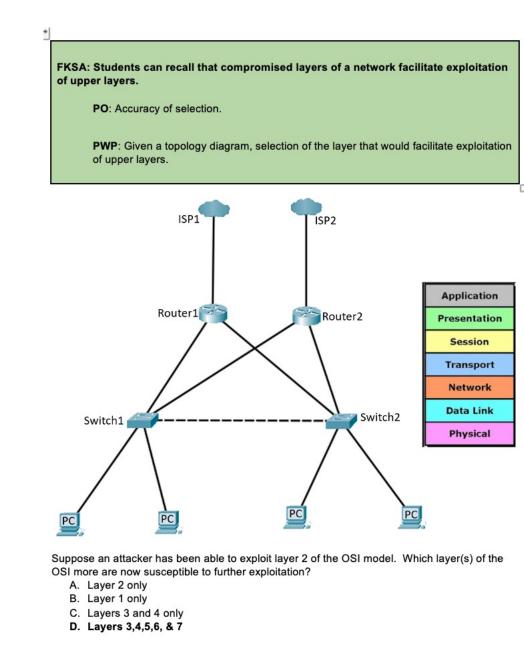
Current Status

- ~200 items developed in Data
 Security and Security & Ubiquitous
 Security
- Working on Domain Modeling for Adversarial Thinking and Establishing Trust
- Review workshop June 2022
- Pilot testing starts Spring 2023

Sample Items Based on Domain Modeling



Data Security



Network Security

Classroom Impact

Teach Cyber, over 1,100 teachers and ~30,000 students RING, 100 teachers and 2,800 students Army JROTC Cyber, 11 teachers and ~5,800 students

Other Potential Impacts

Educational Research in Cybersecurity
Praxis Teacher Test
Placement Test