

NGSS MS ENGINEERING DESIGN STANDARDS

NGSS Standard	Primary Video Matches	Secondary / Possible Matches	Justification
MS-ETS1-1 Define engineering problems	Gravity vs. Drag If We Built a House	Science vs. Engineering	Capsule re-entry system and house design both involve constraints and criteria.
MS-ETS1-2 Evaluate solutions	Gravity vs. Drag	Science vs. Engineering Rover in Trouble	Testing capsule designs and comparing engineering solutions.
MS-ETS1-3 Analyze data for design	Gravity vs. Drag Precision, Accuracy & ASCII	Scientific Method	Data collection and iteration in engineering design.
MS-ETS1-4 Modeling & simulation	Rover in Trouble Gravity vs. Drag	How Planes Really Fly The Drone Dilemma	Flowcharts, algorithms, capsule models, and flight dynamics simulations.
MS-ETS2-2 Influence of technology on society	Hacked! Security in Cyberspace	The Drone Dilemma What Makes You Move	Cybersecurity, drones, and artificial movement systems illustrate human-technology interactions.
CCC: Influence of Science, Engineering, and Technology on Society and the Natural World	Hacked! Security in Cyberspace	Science vs. Engineering The Drone Dilemma	Cyber safety, engineering design, and flight systems show societal impacts of technology.
Online Safety Standards	Hacked! Security in Cyberspace	Basic Programming and Algorithms	Episode teaches safe online behavior and cybersecurity principles.