Super STEM Movies...Vol. 1

Big Hero 6

PG, 2014, 102 min

Ideas for Projects: Robotics, bot fighting, lasers, lab safety, inventions, health care technology,

engineering, science competitions, neurotransmitters, teamwork, tracking systems, 3d printing, sensors

Top Scenes: 7:27–10:40 "Welcome to the nerd lab..."

Big Question: If you had a "nerd lab" what would be in it? What would you create in it?

<u>Further Study</u>: Health care and medicine have some of the most advanced technology. Learn about the different hi-tech medical devices and procedures.

Cloudy with a Chance of Meatballs

PG, 2009, 90 min

<u>Ideas for Projects</u>: Inventions, famous inventors, creativity, science lab design, nutrition, blueprints, electricity, weather, extreme weather, natural disasters

Top Scenes: 0:45-3:15 "It's not easy being different..."

<u>Big Question</u>: If you had the ability to control the weather of the world, what weather would you choose & why?

<u>Further Study</u>: Look at the effects that weather has on the industry, transportation, and culture of a community.

Finding Dory

PG, 2016, 97 min

<u>Ideas for Projects</u>: Memory, migration, pollution, short-term memory loss, the undertow, East Australian Current, bioluminescence, "Rescue, Rehabilitation, & Release," nearsightedness, echolocation,

camouflage, animal & plant diversity, imprinting, quarantine

Top Scenes: 55:50-58:11 Echolocation

Big Question: If you could design an aquarium for aquatic life, what would it look like? What plants &

creatures would it include?

Further Study: Visit an aquarium and learn about working as a marine biologist.

The Iron Giant

PG, 1999, 86 min

<u>Ideas for Projects</u>: Sputnik, electricity, metal recycling, welding, robotics, junkyard art, effects of caffeine

Top Scenes: 45:48-46:53 How to use your Robot

Big Question: What would you do if you had a giant robot? How would you use it?

Further Study: Robots are being adapted for all types of everyday tasks. Research the latest

innovations and advancements in robotics.

Wall-E

G. 2008, 98 min

<u>Ideas for Projects</u>: Repurposing junk, cubic volume, garbage & pollution, solar power, robotics, Rubik's Cube, artificial intelligence, fitness, health impacts of space travel, growing seeds

Top Scenes: 51:20-52:00 & 1:01:20-1:02:00 Analyzing dirt & "Define earth..."

<u>Big Question</u>: How would you design a ship for long-term space travel? What problems could happen? Further Study: Use the website PixarInABox.com to learn how animated movies like Wall-E are created.

Note: Movies are written, directed, & produced to tell a story and make money, not to be used an educational resource. Every movie should be previewed for content that may be inappropriate for your kids.

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