

The Daily STEM

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STEM in the News

Did you ever think about how secret messages were sent and received in the past? Technology has changed how information is sent, but people have always tried to keep information safe. During World War 2, Bletchley Park was a secret location in Great Britain where people worked countless hours to code and decode messages. Recently an 11-minute film was found that shows what life was like there during the war. Women and men played games and relaxed when they weren't working hard deciphering messages. Important work was done by Alan Turing and his team to break the German "Enigma"

machines with their own "Bombe" machine. Would you want to decode secrets? Learn more & see some of the film: bit.ly/2LgxB6Q



STEM + Helping

You've probably heard about companies making equipment to help hospital workers. Ford, a company known for making cars and trucks, created the PAPR (Powered Air-Purifying Respirator) in under 40 days. The air blows down over the head and out to keep any bad air from coming in. It uses a fan like the one in your car to blow the air. It even uses a rechargeable power tool battery! What would you invent to help workers? Learn more: cnet.co/3dvKsyb



STEM Movies

Big Hero 6 PG, 2014, 102 min

Ideas for Projects: Robotics, lasers, bot fighting, lab safety, inventions, health care technology, science competitions, neurotransmitters, engineering, 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?

Further Study: Health care and medicine have some of the most advanced technology. Learn more about some hi-tech medical devices and procedures.

Find more STEM Movie ideas: dailystem.com/resources

STEM Challenge

Paper plates. Cardboard tubes. Milk cartons. Aluminum foil. Pasta. Tape. Scissors. What do all these items have in common? They can all be turned into incredible art! Darrell Wakelam is an artist who uses "simple techniques and cheap, everyday materials" to allow everyone to create masterpieces! Try one of his project ideas at darrellwakelam.com/downloads



The Puzzle

If $1=3$ and $2=9$ and $3=27$, what does $4=?$

Last week's answer: There are 3456 mangos (Did you know 3456 is a Harshad number? Do you know what a Harshad number is?)

Mystery Photo

What's under the microscope?
(answer in next issue)

Last issue's answer:
A TV remote button

