

GRAND CHALLENGE: ENGINEER BETTER MEDICINES

SCIENCE:

Research the impact that genetics can have on the efficacy of medicines - propose methods to use genetics to create more effective medicines

TECHNOLOGY/ ENGINEERING:

Brainstorm and prototype new methods for medicine delivery - test on a macro scale

MATH:

Research disease spread and compute data on success rates of current medicines compared to experimental treatments

SOCIAL STUDIES:

Study pandemics in developing countries - propose methods for containment based on knowledge of cultural norms

ELA/READING:

Read about a pandemic - write a journal from the point of view of a doctor, patient, or medicine

Engineers are developing new systems to use genetic information, sense small changes in the body, assess new drugs, and deliver vaccines.

ARTS:

Research the use of music/sound for healing - find or compose music to be used as a therapy and explain it