SCIENCE

FEB. 5, 2018 **DAY 4/96**

AT THE END OF TODAYS LESSON YOU WILL;

ENGAGE IN ACTIVE READING AS THEY GATHER MORE INFORMATION ABOUT THE RELATIONSHIP BETWEEN FORCE, MASS, AND CHANGES IN AN OBJECT'S VELOCITY.

CLASSWORK-

- **FORCE AND MOTION 2.2 AND FORCE AND MOTION 2.3**
- TODAY, STUDENTS EXPLORE THE RELATIONSHIP BETWEEN FORCE, MASS, AND VELOCITY CHANGE BY READING ABOUT AN ENGINEER WHO DESIGNS WHEELCHAIRS FOR DIFFERENT TYPES OF ATHLETIC COMPETITIONS.
- STUDENTS LEARN THAT WHEELCHAIRS BUILT FOR STABILITY, NOT SPEED, HAVE GREATER MASS WHILE WHEELCHAIRS DESIGNED FOR SPEED HAVE LESS MASS.
- STUDENTS WILL THEN DEEPEN AND DEMONSTRATE THEIR UNDERSTANDING OF THE RELATIONSHIP BETWEEN MASS, FORCE, AND VELOCITY.
- TO BEGIN, STUDENTS USE THE SIM TO TEST HOW EQUAL FORCES EXERTED ON OBJECTS OF DIFFERENT MASS AFFECT THEIR MOTION. INSPIRED BY THE NEED TO APPLY THEIR IDEAS TO A NEW TASK—DESIGNING A WHEELCHAIR THAT WOULD PERFORM WELL FOR BASKETBALL PLAYERS—STUDENTS RETURN TO "DESIGNING WHEELCHAIRS FOR ALL SHAPES AND SIZES" TO SEE HOW FORCES EXERTED ON WHEELCHAIRS OF DIFFERENT MASS AFFECT THEIR VELOCITIES...

HOMEWORK-

- COMPLETE AND SUBMIT THE SECTION FM 2.3 MODELING, AND HOMEWORK.