

# DAK 8 Academy

## Progression Plan



### DAK8 STEM ACADEMY



**6TH GRADE: HEALTH SCIENCE 1 (DISSECTION: THE PURPOSE OF THIS COURSE IS TO PROVIDE AN OVERVIEW OF THE ANIMAL HABITAT, BY COMBINING THE BIOLOGICAL AND PHYSICAL ASPECTS THAT IS TAUGHT USING THE INQUIRY, HANDS-ON INVESTIGATIVE LABORATORY APPROACH, INCLUDING DISSECTION. AND ADDRESSING REAL-WORLD CONCERNS OF THE ANIMAL HABITAT).**

**7TH GRADE: HEALTH SCIENCE 2 (FORENSICS: LABORATORY INVESTIGATIONS THAT INCLUDE THE USE OF SCIENTIFIC INQUIRY, RESEARCH, MEASUREMENT, PROBLEM SOLVING, LABORATORY TOOLS AND TECHNOLOGIES. EXPERIMENTAL PROCEDURES AND SAFETY PROCEDURES ARE AN INTEGRAL PART OF THIS COURSE. THE COURSE WILL PROVIDE STUDENTS THE OPPORTUNITY TO INTERACT DIRECTLY WITH DATA COLLECTED USING TOOLS, MATERIALS, AND MODELS).**

**8TH GRADE: HEALTH SCIENCE 3 (ANATOMY/PHYSIOLOGY: THE PURPOSE OF THIS COURSE IS TO PROVIDE STUDENTS WITH EXPLORATORY ACTIVITIES IN THE STRUCTURES AND FUNCTIONS OF THE COMPONENTS OF THE HUMAN BODY. THE CONTENT SHALL INCLUDE THE CELLULAR PROCESSES AND TISSUES, THE SKELETAL, MUSCULAR, NERVOUS, CARDIOVASCULAR, RESPIRATORY, DIGESTIVE, URINARY, AND REPRODUCTIVE SYSTEMS).**

### DAK8 iTech Academy



**6TH GRADE: ROBOTICS (THE PURPOSE OF THIS COURSE IS TO INTRODUCE THE STUDENT TO BASIC PROGRAMMING AS WELL AS PROBLEM SOLVING STRATEGIES. THIS COURSE WILL INVOLVE STUDENTS IN THE DEVELOPMENT, BUILDING AND PROGRAMMING OF A LEGO MINDSTORM ROBOT. STUDENTS WILL WORK IN TEAMS TO DESIGN, BUILD, AND PROGRAM).**

**7TH GRADE: INTRODUCTION TO CODING, COMPUTERS, TECHNOLOGY (THE PURPOSE OF THIS COURSE IS TO PROVIDE A MEDIUM FOR CREATIVITY, COMMUNICATION, PROBLEM SOLVING, AND FUN. THE COURSE INSPIRES STUDENTS AS THEY BUILD THEIR OWN WEBSITES, APPS, GAMES, AND PHYSICAL COMPUTING DEVICES. STUDENTS ALSO LEARN BASIC KEYBOARDING AND BASIC COMPUTER SKILLS).**

**8TH GRADE: CYBER SECURITY & DRONE TECHNOLOGY (THE PURPOSE OF THIS COURSE IS TO DEVELOP CYBER SECURITY & DRONE TECHNOLOGY KNOWLEDGE THROUGH GUIDED AND FACILITATED INSTRUCTION. STUDENTS WILL ENGAGE IN LEARNING ACTIVITIES THAT INTENTIONALLY ALLOW THEM TO ANALYZE AND INTEGRATE CONTENT FROM TECHNOLOGY IN CYBER SECURITY & DRONE TECHNOLOGY.)**

### DAK8 VPA ACADEMY



**6TH – 8TH GRADE: DANCE 4 (DANCE TEAM) (THE PURPOSE OF THIS COURSE IS TO PROVIDE STUDENTS WITH THE OPPORTUNITIES TO ACQUIRE KNOWLEDGE OF, AND HAVE EXPERIENCES IN, DANCE MOVEMENT. THESE STUDENTS ALSO COMPETE IN REGIONAL AND NATIONAL DANCE COMPETITIONS, AS WELL AS VARIOUS LOCAL PERFORMANCES THROUGHOUT THE YEAR. SELECTION ONTO THE ACADEMY (DANCE TEAM) IS BASED ON AUDITIONS).**