ISTITUTO TECNICO “MAGISTRI CUMACINI”

ANNO SCOLASTICO: 2018/2019

CLASSE 5ELN 1

PROF.G.BROZZO

PROGRAMMA DI INGLESE

UNIT 2:ELECTRIC CIRCUITS

A SIMPLE CIRCUIT

TYPES OF CIRCUITS: SERIES AND PARALLEL

CURRENT VOLTAGE AND RESISTANCE

MEASURING TOOLS: A MULTIMETER, THE OSCILLOSCOPE

LIGHT BULBS:THE INCANDESCENT,FLUORESCENT,LEDS.

UNIT 3: ELECTROMAGNETISM AND MOTORS

ELECTRICITY AND MAGNETISM

SIMPLE APPLICATIONS OF ELECTROMAGNETISM: FUEL GAUGE SYSTEM, DOORBELL SYSTEM.

ELECTRIC MOTORS: ANATOMY OF A MOTOR

EXTERNAL STRUCTURE, INTERNAL STRUCTURE

OVERWIEW OF ELECTRIC MOTORS

DC MOTORS. (LA PARTE RELATIVA A ELECTRIC MOTORS E’ STATA TRATTA DA MATERIALE FORNITO DA TECNOLOGIE E PROGETTAZIONE DI SISTEMI ELETTRICI ED ELETTRONICI)

UNIT 6: ELECTRONIC COMPONENTS

SEMICONDACTORS: PURE SILICON, P-TYPE SEMICONDACTORS ,N-TYPE SEMICONDACTORS

THE TRANSISTOR : AS A SWITCH, AS AN AMPLIFIER

THE ELECTRIC COMPONENTS : RESISTOR,CAPACITOR,INDUCTOR,DIODE.

UNIT 7: ELECTRONIC SYSTEMS

CONVENTIONAL AND INTEGRATED CIRCUITS

HOW AN ELECTRONIC SYSTEM WORKS INPUT,PROCESSING,OUTPUT

ANALOGUE AND DIGITAL: ANALOGUE SIGNALS,DIGITAL SIGNALS

AMPLIFIERS

OSCILLATORS

READ A DATA SHEET.

UNIT 8: MICROPROCESSORS

WHAT IS A MICROPROCESSOR?

THE MICROPROCESSOR: MEMORY CIRCUITS,LOGIC CIRCUITS,CONTROL CIRCUITS.

UNIT 13: TELEPHONE TECHNOLOGY

WHAT IS A TELECOMS SYSTEM

CABLES:COAXIAL CABLES,FIBRE OPTIC CABLES

UNIT 14: ELECTROMAGNETIC RADIATION

ELECTROMAGNETIC WAVES: THE SPECTRUM

LASERS: HOW A LASER BEAM IS MADE

LASER LIGHTS

HOW LASERS ARE USED.

NEL CORSO DELL’ANNO SCOLASTICO GLI STUDENTI HANNO ALTRESI’ AFFRONTATO UNA SERIE DI TESTS TRATTI DAL TESTO : FIRST FOR SCHOOL TRAINER 2.

DAL TESTO:ENGLISH FOR NEW TECHNOLOGY: KIARAN O’MALLEY- PEARSON LONGMAN

GLI STUDENTI LA DOCENTE