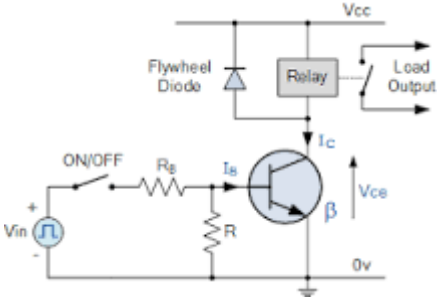
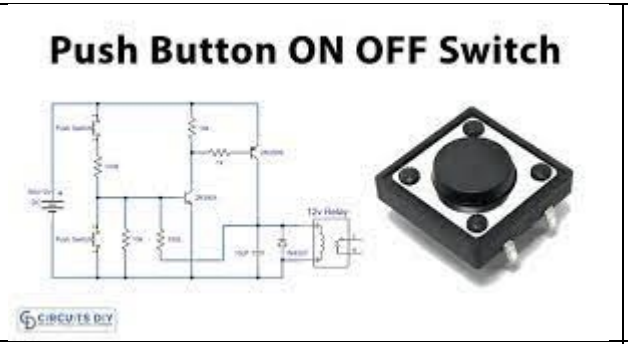
WEEK ENDING.....14/10/2022.....

SUBJECT...INTEGRATED SCIENCE

REFERENCE...SYLLABUS(CRDD,2007), SCIENCE FOR JHS .....

FORM.....BASIC 8.....WEEK.....5.....

DAY/DURATION	***TOPIC/SUB-TOPIC/ASPECT***	***OBJECTIVES/R.P.K***	***TEACHER-LEARNER ACTIVITIES***	**T/L MATERIALS**	**CORE POINTS**	**EVALUATION AND REMARKS**
TUESDAY **11-10-202** **1:20PM – 2:40PM** **80min**	**Topic;** Basic Electronics **Sub-Topic;** Turning on or off of transistors.	By the end of the lesson the Pupil will be able to; Turn on or off transistors in an electric circuit. **RPK** Pupils can identify the various parts of a transistor.	**Introduction;** Engage Pupils to watch a video play of how to on and off a transistor in a circuit. **Activities;** 1. Demonstrate how to turn on or off of a transistor for Pupils to observe. 2. Pupils in small groups to practice turning on or off of transistors. **Closure** Through questions and answers, conclude the lesson.	**Battery, Switch, led bulb, Wire, Pictures.**	 With a zero signal applied to the Base of the transistor it turns “OFF” acting like an open switch and zero collector current flows. With a positive signal applied to the Base of the transistor it turns “ON” acting like a closed switch and maximum circuit current flows through the device.	**Exercise;** Explain the steps to follow to turn on or off a transistor in a circuit.

						
THURSDAY **13-10-2022** **8:05AM – 9:15AM** **70min**	**Topic;** Basic Electronics **Sub-Topic;** Advantages and Disadvantages of using transistors.	**Objective;** By the end of the lesson the Pupil will be able to; Explain the advantages and disadvantages of using transistors. **RPK** Pupils were taught lessons on transistors in basic 7.	**Introduction;** Review Pupils knowledge on the previous lesson. **Activities;** 1. Discuss with Pupils the importance of using transistors in circuits. 2. Pupils brainstorm to explain the disadvantages of using transistors in circuits. **Closure** Through questions and answers, conclude the lesson.		**Advantages of transistor:** • It is used for fast switching applications. • Smaller mechanical sensitivity. • It is used as a current controlled current gain. • It is available at very low cost. • It is very smaller in size. • Fast switching. • It has a longer life • Low operating voltage for greater safety • lower costs • tighter clearances. **Disadvantages of transistors;** 1. It has reverse blocking capacity is very low. 2. It can be damaged due to the thermal runaway or second breakdown 3. . Manufacturing techniques are very complex and require a clean room environment.	**Exercise;** 1.State and explain 3 advantages of a transistor. 2. Explain 2 disadvantages of using transistors in circuits. **REMARKS**

					4. Due to its small size, it is difficult to trace out faulty ones due to failure.	