



## School-based curriculum

S.1		S.2	
Unit 1: Introducing Science	<b><u>LAC activity:</u></b> “Presentation on a STEM product: face mask”	Unit 7: Living Things and Air	<b><u>In-class POE activity / remote laboratory:</u></b> “Gas exchange in aquatic plants and animals” <b><u>Online POE activity using video:</u></b> “Burning candle with a pot of plant” <b><u>Innovative experiment using datalogger:</u></b> “Measuring Fine Particulate Matter (P.M <sub>2.5</sub> ) around the school” <b><u>e-Life@KYC STEM activity:</u></b> “Design and make a drip irrigation device”
Unit 2: Water	<b><u>e-Life@KYC STEM activity:</u></b> “Prepare saturated solution for competition, and design and make a dehumidifier using dried leaves”	Unit 8: Making use of Electricity	<b><u>Online POE activity using video:</u></b> “Magnetic effect”
Unit 3: Looking at Living Things	<b><u>LAC activity:</u></b> “Writing description: description of animals” <b><u>Remote laboratory:</u></b> “Effect of companion on the development of mealworms” “Effect of different kinds of food on the growth of mealworms”	Unit 9: Common Acids and Alkalis	<b><u>Remote laboratory:</u></b> “Effect of acids on the growth of seedlings” <b><u>In-class POE activity:</u></b> “Pumping CO <sub>2</sub> gas into water in a soda maker” <b><u>Innovative experiment using datalogger:</u></b> “Effect of dilution of coke on its acidity” <b><u>LAC activity:</u></b> “Sequencing, cause and effect of acid rain”
Unit 5: Energy	<b><u>e-Life@KYC STEM activity:</u></b> “Design and tailor-make a good microwavable heat bag for the elderly”	Unit 10: Sensing the Environment	<b><u>Innovative investigations using datalogger:</u></b> “Materials for ear protectors” <b><u>Innovative experiment using mobile devices:</u></b> “Visual, auditory, haptic and visual with choice reaction times”
Unit 6: Matter as Particles	<b><u>In-class POE activity:</u></b> “Adding an effervescent tablet into a mixture of oil and water” <b><u>Online POE activity using video:</u></b> “Burning candles with different heights” “Cartesian diver” <b><u>Innovative experiment using datalogger/mobile devices:</u></b> “Effect of temperature / altitude on gas pressure”	Unit 11: Force and Motion	<b><u>e-Life@KYC STEM activity:</u></b> “Design and make a gas jet boat” <b><u>Innovative experiment using datalogger:</u></b> “Motion of a moving trolley”