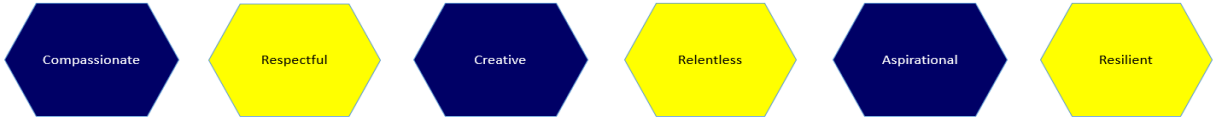
Our Vision:
To develop aspirational learners who strive for excellence academically, creatively and culturally, benefitting from a wide range of opportunities led by inspirational educators.

SHIRLEY HIGH SCHOOL PERFORMING ARTS COLLEGE

KEY STAGE 3 – WORKING AT - SCIENCE

Subject	Working Towards	Working At	Working Beyond
Science Y7	Students achieve many but not all aspects of the Working At criteria	**How science works:** ● Identify the variables within an investigation **Biology:** **Organisms:** ● Students describe the processes involved in movement & cells **Ecosystem:** ● Students describe the processes involved in interdependence & plant reproduction **Genes:** ● Students describe the processes involved in variation & human reproduction **Chemistry:** **Matter**: ● Students describe the processes involved in the particle model & Separating mixtures **Reactions:** ● Students describe the processes involved in acids and alkalis & Metal and non-metals **Earth:** ● Students describe the processes involved in Earth's structure & Universe **Physics:** **Forces:** ● Students describe the processes involved in speed & gravity **Electromagnets:** ● Students describe the processes involved in resistance & currents	Students consistently achieve criteria for working at and provide examples that show considerable depth and understanding.



		Energy: ● Students describe the processes involved in energy resources & energy transfer **Waves:** ● Students describe the processes involved in sound & Light	
Science Y8	Students achieve many but not all aspects of the Working At criteria	**<u>How science works:</u>** ● Evaluate the effectiveness of an investigation **<u>Biology:</u>** **Organisms:** ● Students describe the processes involved in breathing & digestion **Ecosystem:** ● Students describe the processes involved in respiration & photosynthesis **Genes:** ● Students describe the processes involved in evolution & inheritance **<u>Chemistry:</u>** **Matter:** ● Students describe the processes involved in elements & periodic table **Reactions:** ● Students describe the processes involved in reactions & chemical energy **Earth:** ● Students describe the processes involved in climate change & extracting resources **<u>Physics:</u>** **Forces:** ● Students describe the processes involved in contact forces & pressure **Electromagnets:**	Students consistently achieve criteria for working at and provide examples that show considerable depth and understanding

		• Students describe the processes involved in magnetism & electromagnetism **Energy:** • Students describe the processes involved in work & heating **Waves**: • Students describe the processes involved in waves	
Science Y9	Students achieve many but not all aspects of the Working At criteria	**<u>How science works:</u>** • Students plan a scientific investigation to test out a hypothesis **<u>Biology:</u>** **Organisms:** • Students describe the processes involved in pathogens & immunity **Ecosystem:** • Students describe the processes involved in biodiversity & deforestation **<u>Chemistry:</u>** **Matter:** • Students describe the processes involved in atomic theory & bonding **Reactions:** • Students describe the processes involved in reactivity series & electrolysis **Earth:** • Students describe the processes involved in global warming **<u>Physics:</u>** **Forces:** • Students describe the processes involved in gravity & star formation **Electromagnets:** • Students describe the processes involved in electrical components & appliances	Students consistently achieve criteria for working at and provide examples that show considerable depth and understanding

		Energy: ● Students describe the processes involved in energy resources	