



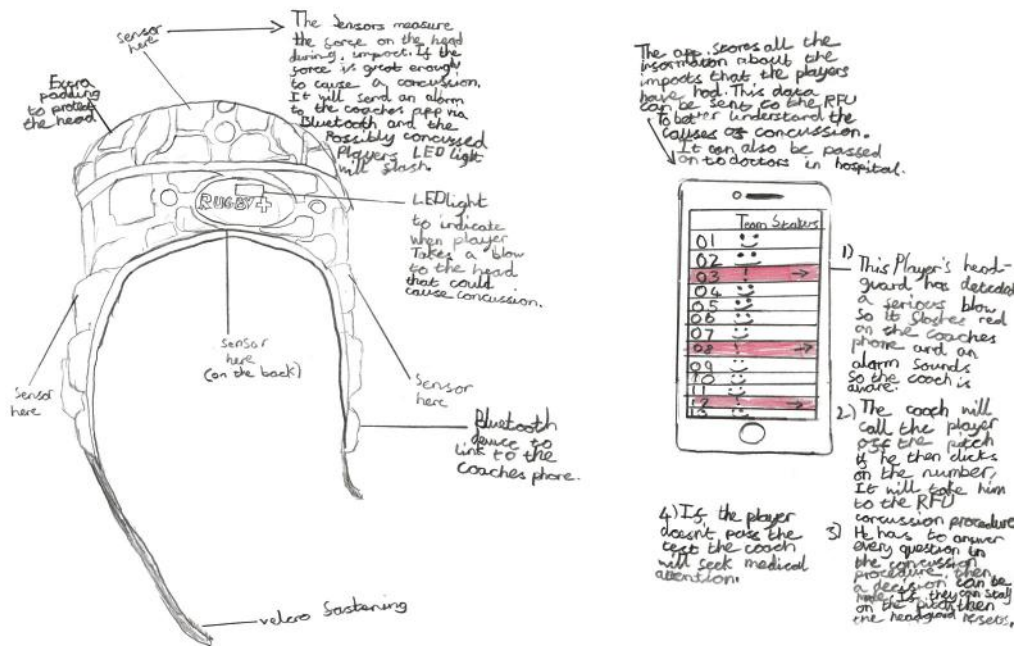
IF YOU WERE AN ENGINEER

WHAT WOULD YOU DO?®

North East England Leaders Award 2019
 Winner, Year 6

Rugby Safe

Rugby safe Headguard By James Swift



Name: James Swift
 Gender: Male
 School name: Dame Allan's Junior School
 Year group: Year 6
 Which engineer inspired you? Mark Jackson
 From which company? MJ Associates

This Headguard, to be worn by Rugby players, looks and works as a protector worn by Rugby players currently, however, this helmet is fitted with sensors which detect levels of impact that could cause a concussion. The helmet is connected via Bluetooth to a Smart Phone App which records head impacts of each player and triggers an alarm to the team coach or physio to make them aware if limits are being exceeded. The data recorded can be uploaded to the Rugby Football Association for analysis as a longitudinal study into concussion from head impacts.