My design consists of a jacket, a pair of trousers, a pair of gloves and a hat. The reason I have chosen these items as part of my design is because my end user is a survivalist based in cold climates. I have chosen these items as part of the outfit because a survivalist needs to be covered to prevent injuries on the skin and they need to be able to protect themselves from things like cold weather and wind. The jacket is waterproof, long sleeved and it is hooded. It has several zip pockets for storage as a survivalist will have a lot of equipment. The jacket has a centre front zip as this can be done up or undone with ease whilst wearing gloves. The bottom of the jacket has a draw string fastening to keep the user as warm as possible in cold weather. The trousers are waterproof and loose fitting. The inner knee stretching to mid thigh and mid calf is a stretchy wool fabric to allow easy movement. The hat is a thick knit wool, this helps prevent heat loss through the top of the head. The gloves are also a thick knit wool with grip panels on the palms to help the user climb or lift things safely.

The multifunctional features are that the jacket has solar panels on the arms, shoulders, back and chest which will collect energy to a power box which can be switched on to turn on the heated fibres which will warm up the jacket. The sleeve cuff also has a zip on both sleeves which the gloves can fold up into when the user doesn’t want to wear them. I have chosen the multifunctional feature of warming up the user because this design is made for cold climates and it will prevent the user getting cold. The details are that the fitted solar panels collect energy during the day time that will be stored in the power box.

For my jacket and trousers I am using merino perform as part of the innovations range, because it traps in heat, which is very useful for the user. My jacket will have heated fibres woven in but the trousers will not. Both fabrics will be coated with a waterproof spray. The inner knee panels are a wool and Lyca mix to allow stretch and they are more hard wearing. The percentages will be 70% Lyca and 30% wool with an approximate GSM of 350. The main trouser fabric is a medium weight woven wool with an approximate GSM of 300. The main jacket is woven wool and a medium weight with an approximate GSM of 350. Solar panelled areas (non wool fabric) lined with a woven wool with an approximate GSM of 120 to keep the long lightweight. The gloves and the hat are knitted with an approximate GSM of 360. My non wool fabrics are my solar panels, zip fastenings and grip panels on the gloves.

The Woolmark logo means what percentage of wool or other fibres are mixed into one fabric. My garment would be the Woolmark blend because it’s 50%-99% wool. However the accessories being the hat and the gloves will be 100% pure new wool.
The innovative fabric used for each design is Merino wool because it traps an warmth and lets out cold.
Technical drawing - Accessories

Knitted hat

Folded 4cm up

Rubber grip

Toppstitching