Mark Scheme (Results)

Summer 2008

GCSE Design & Technology:
Textiles Technology (3971) Paper 2F

3971 2F Mark Scheme

Question Number	Answer	Mark
1 (a)	**Name:** Thimble (1) **Use:** To protect/stop pricking/hurting /injuring finger / To push a needle/pin through material (1) **Name:** Buckle (1) **Use:** Fastening / Closing / Shutting / Secure / Hold belt in place(1) **Name:** Iron (1) **Use:** Ironing /Pressing / removing creases / making smooth (1) *(accept phonetic spellings)* (6 x 1)	**(6)**
1 (b)	**Three reasons given from:** • Easy to do up / undo / use / children can use easily (1) • Quick to undo / do up (1) • Adjustable / can be worn half open/fully closed / can be partly done up/undone (1) • Can be undone from the bottom (1) • Doesn't come undone accidentally (1) • Keeps out the cold / wind / rain (1) • Can let air in (1) • No gaps (1) • Flat & inconspicuous/can be hidden (1) • Cannot be lost (like buttons) (1) • Durable / hardwearing (1) (3 x 1)	**(3)**
1 (c)	**Two safety actions given from:** • Change presser foot to a zipper foot / use correct foot (1) • Move needle position to L or R of zipper foot (1) • Remove any pins (1) • Take care not to machine over the zipper teeth / zip in straight (1) • Keep fingers out of the way (1) • Switch sewing machine off when not in use (1) • Tie hair back (1) • Remember to put presser foot down (1) • Keep head away from balance bar (1) • Sew slowly (1) (2 x 1)	**(2)**
	Total for question	**11**

Question Number	Answer	Mark
2 (a)	**Any two fibres named from:** • Viscose / Rayon / Fibra / Evlan / Sarille (1) • Acetate / Dicel (1) • Triacetate / Tricel (1) • Lyocell / Tencel (1) • Polyamide / Nylon / Antron / Cordura / Tactel (1) • Polyester / Terelene / Crimplene / Trevira / Dacron (1) • Acrylic / Courtelle / Draylon / Dolan / Orlan / Teklan (1) • Elastane / Lycra / Spandex (1) • Aramid / Kevlar / Nomex (1) (2 x 1)	**(2)**
2 (b)	**Any three properties given from:** • Warm / insulating (1) • Absorbent (1) • Good elasticity / resilience / stretches (1) • Does not burn easily/fire resistant (1) • Attacked by moths (1) • Soft / Coarse (1) • Repels water (1) • Crease resistant (1) (3 x 1)	**(3)**
2 (c)	**Two working characteristics given from:** • Frays when cut (1) • Not warm / keeps you cool (1) • Does/may not drape well (1) • Does/some drape well (1) • Does not stretch (1) • Stronger when wet (1) • Takes dyes well (1) • Wears well / hardwearing / strong (1) • Easily washable (1) • Creases easily (1) (2 x 1)	**(2)**
2 (d)	**Two reasons given from:** • To combine/improve the performance properties/good points of the fibres (1) • To make fabrics more economical/cheaper (1) • To create decorative effects /textures /finishes (1) • To produce multi-coloured yarns (1) (2 x 1)	**(2)**

2 (e)	One reason explained from:	
	• **Keeps/recovers its shape** after being **stretched** to put on. • **Easy to put on** and **fits well** • Will **absorb sweat** and **keeps wearer cool / not as hot.** • Does **not crease easily** so good **appearance is maintained** • **Flexible/stretches** while wearing so does **not restrict movement** • **Soft fabric** so **comfortable to wear** (2 x 1)	**(2)**
	Total for question	**11**

Question Number	Answer	Mark
3 (a)(i)	**One point and reason from:** **Market** **Point:** Appealing to the wearer. **Reason:** Item must appeal to their needs and tastes. **Point:** Unisex / fashionable colour **Reason:** To appeal & get market share **Point:** Bright colour / reflective strips **Reason:** To be seen in the rain/all weather conditions/the dark **Point:** Suitable price **Reason:** To suit the budget available **Point:** Size **Reason:** Available in different sizes for all ages **Point:** Wipe clean **Reason:** Easy to maintain **Point:** Easy to get on and off **Reason:** Need to put on quickly when the weather changes (2 x 1)	**(2)**
3 (a)(ii)	**Environmental** **Point:** Reduced obsolescence *(not a high fashion item)* **Reason:** Can be handed down/reused **Point:** Washed easily / washable at 30°C gentle wash/ no need to iron **Reason:** Less energy used drying / ironing. **Point:** Durable/hardwearing/ last a long time **Reason:** Reduced amounts in landfill (2 x 1)	**(2)**

3(a)(iii)	Quality	
	Point: Well made (1) eg. stitching secure and accurate,/ edges finished accurately/appropriately, /pockets/zips secure. **Reason:** Item worn by children so must be firmly stitched/components attached securely (1) **Point:** Durable / hardwearing fabrics (1) **Reason:** To withstand wear and tear / last a long time (1) **Point:** Waterproof / resistant fabrics (1) **Reason:** To protect the wearer from rain (1) **Point:** Lightweight (1) **Reason:** Easy to carry around /comfortable to wear (1) **Point:** Good quality components (zip) (1) **Reason:** To withstand wear and tear/ be reliable (1) (2 x 1)	**(2)**
3 (b)(i)	**Two reasons given from:**	
	• Shower proof/water resistant (1) *(do not accept waterproof)* • Wind resistant (1) • Easily washed / drip dried/ dries quickly (1) • Can pack up small (1) • Strong / hardwearing / durable (1) • Flame resistant (1) • Warm to wear (1) • Not expensive (1) • Lightweight (1) (2 x 1)	**(2)**
3 (b)(ii)	**Two reasons given from:**	
	• Still looks presentable / uncreased when removed from the bag (1) • Doesn't need ironing (1) • Doesn't need secondary finishing (1) • Makes it easier to care for (2 x 1)	**(2)**

3 (c)	Two properties with reasons from: **Property:** Good insulation/warm/fluffy **Reason:** Keeps wearer warmer as raised fibres trap air. **Property:** Easily washable /by machine **Reason:** Frequent washing required due to item getting dirty. **Property:** Soft/comfortable to wear **Reason:** Will not be uncomfortable / irritable / wearers will want to wear it **Property:** Absorbent **Reason:** Will absorb perspiration when playing (2 x 1)	**(2)**
3 (d)	**Two checks named from:** • After cutting to check sizes within tolerances (1) • Tolerance levels for seam widths (1) • Stitching quality (1) • Zips are straight / work correctly (1) • Elasticated wristbands the same width (1) • Reflective strips the same width (1) • Lining not twisted (1) • Check for inclusion of care label (1) • No loose components (1) • Position / Size of logo (1) (2 x 1)	**(2)**
3 (e)	One reason described from: • **Only one colour / one screen needed** therefore **economical to produce** • **Simple pattern** so **easy to produce the stencil on the screen.** • **Easy to achieve a consistent professional finish** so **good quality product** manufactured • **Easily programmed** so **quick / cheaper / less effort** to produce in batches (2 x 1)	**(2)**
3 (f)(i)	One example explained of how each purpose is achieved from: **Be seen in the dark** • **Reflective strips** will be picked out by **lights in darkness** • **Bright yellow colour** will **reflect / shine if lights hit it** (2 x 1)	**(2)**
3 (f)(ii)	**Be able to fit into a small bag for carrying** • **Light weight / thin fabric** so **easy to fold up / make smaller.** • **Flexible components** so **easy to fold up.** (2 x 1)	**(2)**
	Total for question	**22**
	Total for paper	**44**