

Task 2.

Equipment and technology required for participants to use

NAME:

TEACHER:

THREE QUESTIONS, AND THEY STACK

B1 lists eight categories of equipment. B2 gives what technology has done to **those same eight**. B3 gives the limitations. Learn the eight once and you have learned most of the outcome.

B1

What equipment do participants use?

B2

What has technology done to each of those eight?

B3

What are the limitations of that technology?

Task 2, sat Monday 22 February. A presentation of 10–15 slides, 12 marks. Two strands, and BOTH are needed:

Strand	What it asks for
1 · Clothing and equipment	justify the clothing and equipment choices, with specific relevance to the participant in the paper and their chosen activity
2 · Technology	justify the technology choices, naming the technological developments, with benefits and limitations, again specific to that participant

Two ways answers get capped: covering only one strand, and being relevant to the sport but not to the participant. A broad list of items with generic justifications still sits in Band 2.

THE EIGHT CATEGORIES: 1 TO 4

Complete each category, then add a real example you have found in the department.

Category	What the specification lists	An example from our department
1 Clothing	sports k____ · w_____ clothing · training clothing, e.g. b_____	
2 Footwear	t_____ · s_____ boots · sport-specific footwear	
3 Sport-specific equipment	participation e.g. _____ · travel-related e.g. _____ · scoring e.g. _____ · fitness training e.g. _____	
4 Protection and safety	m_____, h_____, e_____ and b_____ protection · f_____ devices. First aid: ice packs, bandages, d_____	

THE EIGHT CATEGORIES: 5 TO 8

Category	What the specification lists	An example from our department
5 Assistive equipment	a w _____, for example an adapted wheelchair for wheelchair tennis	
6 Facilities	indoor e.g. _____ and _____ · outdoor e.g. _____, climbing wall, artificial snow domes	
7 Officiating equipment	w _____ · m _____ · e _____	
8 Performance analysis	s _____ w _____ · h _____ r _____ m _____ · a _____	

The sentence that earns marks. Not "studded boots", but: "studded boots for playing hockey on grass in winter, because the studs grip a soft, wet surface and reduce her risk of slipping when she changes direction." Item, participant, activity, conditions, reason.

JUSTIFY IT FOR THE PARTICIPANT

Naming an item earns very little. The marks are in **why this participant, doing this activity, in these conditions**, needs it.

Participant and activity: _____

Item	Category	Why THIS participant needs it for THIS activity

Check: could any of your reasons be copied onto a different participant unchanged? If so, it is not yet specific.

WHAT TECHNOLOGY DID: CATEGORIES 1 TO 4

Same eight categories, now the **technological developments**. Naming the item is B1. Saying what technology changed about it, and the effect, is B2.

Category	The technological development	How it helps the participant
1 Clothing	improved t_____ · designed to improve a_____	
2 Footwear	sport-specific new designs or materials · improved g_____ · r_____	
3 Sport-specific equipment	new materials for l_____ and s_____, including c_____ materials · new designs to improve performance	
4 Protection and safety	improved protection design · l_____ weight · improved performance, e.g. the shape of cycle helmets	

WHAT TECHNOLOGY DID: CATEGORIES 5 TO 8

Category	The technological development	How it helps the participant
5 Assistive equipment	p_____ · sport-specific w_____ · equipment supporting visual and hearing impairments	
6 Facilities	facilities that s_____ environments to replicate competition elsewhere · a__ w_____ surfaces · surfaces that reduce injury risk	
7 Officiating	c_____ assisted systems · v_____ assisted decision making	
8 Performance analysis	a_____ cameras · G__ · applications · s_____ on sports clothing or equipment	

The difference that decides the band. "She uses a tennis racquet" is equipment. "Composite materials make the racquet lighter and stronger, so she can swing faster with more control" is a technological development. Only the second earns the technology marks.

THE LIMITATIONS OF TECHNOLOGY

Five limitations. An answer that only says technology is brilliant is half an argument.

Limitation	What the specification says	An example from our own lesson
Time	setting up, using the equipment, compiling d____, giving f_____ to the participant	
Access	e_____ and unfair advantages, as not all participants have access	
Cost	the i_____ cost and the follow-up m_____	
Accuracy	the d_____ provided by the equipment may not be accurate	
Usability	specific t_____ is required	

Benefits and limitations together is what comprehensive means. Give both, for the same technology, for the same participant.

ARGUE BOTH SIDES

The shape that scores. "A GPS tracker would show her how far she covers in a session, so she can see her aerobic endurance improving. But the cost and the training needed to read the data may put it out of reach for a beginner training alone, so a simple heart rate monitor would suit her better." Benefit, limitation, and a judgement, all for the same participant.

Technology	The benefit for this participant	The limitation for this participant	Would you recommend it? Why?

MODEL ANSWER: TASK 2

Leah plays hockey as a defender, on grass, in winter. Highlight the equipment, the technological development, the benefit and the limitation. Then circle every mention of Leah.

CLOTHING AND EQUIPMENT

"Leah would need studded boots for playing hockey on grass in winter. The studs grip a soft, wet surface, which reduces her risk of slipping when she changes direction, and as a defender she turns and reaches constantly. Modern boots also use lighter synthetic materials than older leather ones, so she carries less weight over a full match and tires less quickly late on, which matters because she plays the whole seventy minutes."

TECHNOLOGY

"She would also use a GPS tracker. Sensors in the vest record the distance she covers and her speed, so her coach can show her exactly how much ground she loses in the final quarter and set training around it."

The limitation is cost and the training needed to read the data, so at club level she may only get access to it occasionally rather than every week."

TASK 2 PRACTICE

Marcus is 68 and recently retired, with type 2 diabetes. He has joined a walking football session at his local leisure centre twice a week, and does not drive. Justify the sports clothing, equipment and technology Marcus would need to take part. **(12 marks)**

BAND 4 CHECKLIST

- ☐ Clothing and footwear
- ☐ Sport-specific equipment
- ☐ Protection or safety
- ☐ Technology strand too
- ☐ Developments named
- ☐ Benefits AND limitations
- ☐ Marcus named throughout

Band awarded: **Named gap for next time:**

SELF-TEST

Cover your notes. Mark it against the knowledge organiser on the next page.

1. Name all eight equipment categories.

2. Name the four kinds of sport-specific equipment.

3. Give two technological developments in sports clothing.

4. What has changed about sport-specific equipment, and why does it help?

5. Name the five limitations of using technology.

6. Which strands must a Task 2 answer cover?

TASK 2 KNOWLEDGE ORGANISER

B1 The eight categories

Clothing: sports kit · waterproof · training clothing, e.g. bibs.

Footwear: trainers · studded boots · sport-specific.

Sport-specific equipment: participation, e.g. balls and rackets · travel-related, e.g. kayak · scoring, e.g. goalposts · fitness training, e.g. dumbbells.

Protection and safety: mouth, head, eye and body protection · floatation devices. First aid: ice packs, bandages, defibrillator.

Assistive: a wheelchair, e.g. adapted for wheelchair tennis.

Facilities: indoor, e.g. sports halls and gyms · outdoor, e.g. pitches, climbing wall, artificial snow domes.

Officiating: whistle · microphone · earpiece.

Performance analysis: smart watches · heart rate monitors · applications.

B2 The same eight, with technology

Clothing: improved thermoregulation · designed to improve aerodynamics.

Footwear: new designs or materials · improved grip · rebound.

Sport-specific: new materials for lightness and strength including composites, e.g. tennis racquet · new designs to improve performance, e.g. golf driver.

Protection: improved design · lighter weight · improved performance, e.g. aerodynamic cycle helmets.

Assistive: prosthetics · sport-specific wheelchairs · equipment supporting visual and hearing impairments.

Facilities: simulated environments · all weather surfaces · surfaces that reduce injury risk.

Officiating: computer assisted systems · video assisted decision making.

Performance analysis: action cameras · GPS · applications · sensors on clothing or equipment.

B3 Limitations, and Task 2

The five limitations:

- time: setting up, using, compiling data, giving feedback
- access: not all participants have it, creating unfair advantages
- cost: initial and maintenance
- accuracy of the data
- usability: specific training required.

Task 2, 12 marks, a presentation of 10–15 slides, Monday 22 February. Justify clothing and equipment AND technology, for the participant in the paper.

Covering only one strand caps the mark. Relevance to the sport but not the participant sits in Band 2. Name the technological developments, and give benefits with limitations.

Eight categories, learned once. Then what technology did to each. Then the limitations. Justify everything for the participant in the paper, not just the sport.