Year 10

Technology in Sport

The technology used in sport is always evolving in an attempt to improve the quality of the sport and viewing experience. However, the increased use of technology also has some disadvantages.

Advantages of technology

Performer

Development of **training equipment**, **analysis tools** and **monitoring systems** allows for **greater skills development**

Sport

The **popularity** of the sport can be increased by:

- higher levels of performance due to **increased quality of training**
- **increased viewing quality** due to filming improvements

Spectator

Increased **quality of filming** and **increased camera angles** lead to a better viewing experience

Sponsor

Improved quality and popularity of the sport is advantageous for companies associated with the sport; there are also increased **opportunities to advertise**, e.g. electronic ad boards

Official

The development of tools such as Hawk-eye makes the decisions of officials **more accurate**

Disadvantages of technology

Sport

If the **flow of the game** is disrupted, its **popularity** may be negatively affected

The fact that it is harder to detect those using performance-enhancing drugs (**PEDs**) has a negative effect on the sport's **reputation**

Spectator

The **disruption to gameplay** may make the viewing experience less enjoyable

Official

The role of the officials may be reduced due to the use of technology to **make their decisions**

Their decisions may also be **questioned** more

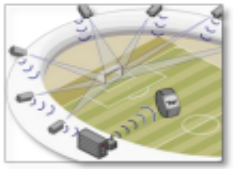
Performer

Tools such as Hawk-eye are not available for all performers due to costs, and they can **disrupt the flow** of the game; technology improvements also make **PEDs harder to detect**

Hawk-eye

- Used in tennis and cricket
- To help officials determine where the ball would end up e.g. is it in or out in tennis
- Helps players to challenge umpires decisions when they feel the official has made a wrong call.

Goal-line technology



- Used in football
- Helps officials to determine whether the ball has crossed the line and whether they can award a goal

Television match official (TMO)

- Used in rugby
- Helps officials make decisions by looking at replays, using alternative angles and using slow motion

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