

BTEC SPORT TECH AWARD

Component 1 : Preparing Participants to take part in Sport and Physical Activity Knowledge Organisers





BTEC SPORT TECH AWARD

Component 1 : Learning Aim A Knowledge Organisers



Sport - An activity involving physical exertion and skill in which an individual or team competes against another or others for entertainment.



Sport and Physical Activity

Sports have rules and regulations that are governed by National Governing bodies.

Physical Activity - Any bodily movement produced by skeletal muscles that results in energy expenditure.

Sport	Physical Activity	
Tennis	Running	
Football	Cycling	
Rugby	Swimming	
Badminton	Gardening	
Rowing	Walking	
Hockey	Cleaning	



Team Sports - A team sport includes playing any sport with other people which involves players working together towards a shared objective.



Individual Sports - An individual sport includes a sport where you play alone, and you rely on no one else to help you achieve your goals.







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Pearson BTEC



Benefits of Sport and Physical Activity







Benefits of Sport	Benefits of Physical Activity
Improve fitness	Meet new people
Meet new people	Set fitness goals
Develop new leadership skills	Improve confidence
Resilience	Improve body composition
Self confidence improved from competition.	Improve physical health













Outdoor activity Outdoor activity refers to activities engaged in outside, most commonly in natural settings.

When the activity involves exceptional excitement, physical challenge, or risk.





Outdoor Activities

Why take part?

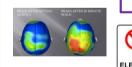
- They enjoy it.
- They feel a sense of achievement from the challenge.
- Something different to traditional sports that they may not enjoy.

Positive risk taking

- Not all risk taking is bad!
- Some risks are good and promote healthy development. Risk taking is linked to development changes in the brain that help you become a healthy adult.
- An element of this is required for children and young adults to test the boundaries and develop as individuals.

Endorphin release

- Endorphins are released into the brain when you exercise.
- Endorphins are neurotransmitters a chemical linked with an energetic and positive outlook on life.
- They also have other benefits such as:-
 - Reducing stress
 - Helping to fight anxiety and depression
 - Boosting self-esteem
 - Promoting restful sleep







Benefits of outdoor activity

- Improved self confidence
- Improved self-esteem
- Meet new people
- Learn new skills
- Time away from life stressors
- Time away from electronic devices





What are the physical activity needs? Physical health needs Social health needs Mental health needs



What are the social health needs?

- Meeting new people
- Make new friends
- Have fun
- Develop leadership
- Team working skills
- Decrease loneliness

 What are the benefits of exercise on physical health?

 Image: Strengthens bones and muscles
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Physical Activity Health Needs

What are the physical health needs?

- Improve fitness
- Improve body composition
- Improve sleep
- Immunity to help prevent illness
- Symptoms of long-term health conditions



What are the mental health needs?

- Decrease stress levels
- Improve work life balance
- Decrease risk of depression
- Improve mood
- Increase self-confidence
- Increase self-esteem





Sports Provision The supply of sporting activities. The provision of sports facilities and opportunities in Britain is the result of the interaction

between the public, private and voluntary

sectors.







Private Sector The private sector is the part of the economy that is run by individuals and companies for profit and is not state controlled. Examples: Pure Gym, Crow Wood Leisure

Volunteer sector The 'voluntary sector' refers to organisations whose primary purpose is to create social impact rather than profit. Examples: Colne Swimming Club, Seedhill Athletics Club, Pendle Forest Sports Club, Colne Football Club







Provision – The action of proving or supplying something for use.





County Council

Public Sector

Public sector organisations **are owned by the government**. They provide goods and services for the benefit of the community. They are run by the government. They operate with money raised from taxes. *Examples: Pendle Leisure Centre, Wavelengths, West Craven Sports Centre*









Types of participants

What can influence participation in sport?

People have different preferences and reasons for choosing to participate in sport and their choice is influenced by a number of factors including: Gender **Role Models** Age Ethnicity Disability Economic status Religion Cost Access Social factors Sexuality Family and peers



What are the different age categories?

Early years (0 - 5 years old) Adolescents (5 - 18 years old) Adults (19 - 64 years old) Older adults (65+ years old)

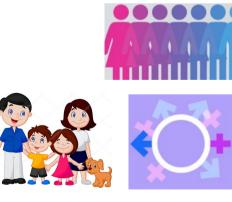
Why might age affect your participation?

Older adults may experience weight-gain and decreasing flexibility and strength making it harder to engage in some activities.



Why might family and peers affect your participation?

If your family and your peers and not interested in taking part are you likely to try it? Family and peers can influence the decisions that you make and what you do with your life.



Why might gender affect your participation?

Women may feel more aware of there body image and have low self-esteem. Women are also sometimes discriminated against in certain sports and therefore feel uncomfortable taking part.





What is a disability? A physical or mental condition that limits a person's movements, senses or activities.







What are the three main disabilities? Physical Visual Hearing

Disability in Sport

Equality Act 2010

You're classed as disabled under the Equality Act 2010 if you have a physical or mental impairment that has a 'substantial' and 'longterm' negative effect on your ability to do normal daily activities.





What is a visual impairment? Visual impairment is a term experts use to describe any kind of vision loss, whether it's someone who cannot see at all or someone who has partial vision loss.

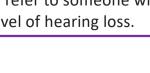
> What are some specific disability sports? BOCCIA Goalball Sitting Volleyball Wheelchair rugby Wheelchair basketball Amputee football



What is a physical impairment? The physical capacity to move, coordinate actions, or perform physical activities is significantly limited, impaired, or delayed.



What is a hearing impairment? Hearing impairment or deafness covers are terms we use to refer to someone who has some level of hearing loss.

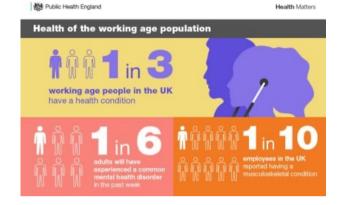




What common medical conditions can impact on participation? Asthma Diabetes Coronary Heart Disease High Blood Pressure



Medical conditions in Sport



What is diabetes?

Diabetes is a disease that occurs when your blood glucose, also called blood sugar, is too high or too low. This is because the body doesn't have the ability to produce or respond to the hormone insulin.



What is asthma?

Asthma is a condition in which your airways narrow and swell. This can make breathing difficult and trigger coughing, a whistling sound (wheezing) when you breathe out and shortness of breath.

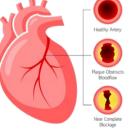
What is high blood pressure?

When the force of the blood pushing through your vessels is consistently too high. This can lead to heart disease and further health complications.





CORONARY ARTERY DISEASE



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What is coronary heart disease? A disease in which there is a narrowing or blockage of the coronary arteries (blood vessels that carry blood and oxygen to the heart).





Physical Activity Guidelines

What are the government physical activity guidelines?

This is guidance set out by the government to try and encourage you to move more and make it less likely for you to develop life threatening conditions.







5 – 18 years old	19 – 64 years old	65+
 All children and young people should engage in moderate to vigorous intensity physical activity for at least 60 minutes and up to several hours every day. Muscle and bone strengthening activities must be incorporated at least 3 days a week. Minimise the amount of time spent being sedentary for extended periods. 	 150 minutes of moderate intensity activity a week in total in bouts of 10 minutes or more. Or 75 minutes of vigorous intensity activity spread across the week or combination of moderate and vigorous intensity activity. Should undertake muscle strengthening activities two days a week. Minimise the amount of time spent being sedentary. 	 150 minutes of moderate intensity activity a week in total in bouts of 10 minutes or more. Or 75 minutes of vigorous intensity activity spread across the week or combination of moderate and vigorous intensity activity. Should undertake muscle strengthening activities two days a week. Older adults should incorporate balance and co-ordination at least two days a week to reduce the risk of falls. Minimise the amount of time spent being sedentary.





Common barriers to taking part in sport and physical activity are: Cost Access Time Personal Cultural



What could cause a barrier with regards to time? Family School Work People are always busy!

What could cause a barrier with regards to access? Location Resources Types of sport available Limited transportation



Barriers to participation



What could cause a barrier with regards to cost? Clothing Equipment Transport



What could cause a barrier with regards to

personal?

Body image Lack of self-confidence Parental or guardian influence Limited previous participation Low fitness levels Extended time off

What could cause a barrier with regards to cultural? Single sex sport Social norm Lack of role models







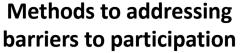


Cost

- You could give the participants discounted parking.
 - Allow participants to hire equipment if they can't afford to buy it.
- Create a free parking area for participants who are accessing the facilities.

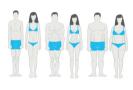
Time

- You could create creche facilities at the provision so that parents can come and drop their children off to be looked after.
- Opening hours could be extended to ensure that this does not limit participants access to the gym at certain times.



Access

- Participants could be given discounted rates with public transport.
- Create a cycle hire facility to be able to access the facility.
- Have CPD for staff to support all types of participants and meet their needs.
- Increase the range of provisions of sport and physical activities.





Personal

- Create private changing cubicles for participants to be more private.
- Allow participants to wear what clothing they want so that they are comfortable.
- In advertising use a wide variety of body compositions to make people feel comfortable.
- Create parents and child sessions to create a family environment.



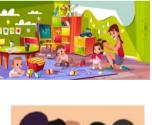
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 Create women only sessions that are staffed by women, to make participants feel more comfortable.

Cultural

- Create a more diverse staff workforce that represent a wide variety of ethnicities and religions.
 - Staff CPD on cultural awareness.







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Component 1: Learning Aim B Knowledge Organiser

Sports clothing

- Sports kit
- Waterproof clothing
- Training clothing
- Bibs



Sport specific examples

- American Football helmet, shoulder pads, gum shield
- Rugby studded boots, gum shield, scrum cap
- Swimming kick board, swim cap, goggles, fins, pull buoy.
- Kayaking kayak, paddles, helmet, waterproof clothing, buoyancy aid, spray deck.



Safety equipment

- Rugby post pads
- First aid kit
- Trampolining end decks
- Defibrillator





Sports kit

- Sense of identity
- Team Cohesion
- Easily identified within a game



Protective Equipment

- Football shin pads
- Gum shield
- Shoulder pads
- Helmet
- Harness
- Goggles



Different types of sports clothing

Different types of footwear

- Football and rugby studded boots
- Track running spiked shoes
- Cycling Cleat shoes



Protective VS Performance

- Performance Helps you improve your performance.
- Protective Helps you stay safe while carrying out your performance.





Performance equipment

- Swimming Racing suit
- Sprinters Spiked running shoes
- Strength and conditioning gym
- Performance analysis equipment.





Disability sports

- Wheelchair Basketball
- Wheelchair Rugby
- BOCCIA
- Goalball
- Sitting Volleyball





Specialised equipment

We need to create specialised equipment in order to:

- Give everyone an equal opportunity to take part in sport.
- Makes the sport accessible
- Gives individuals a level playing field to compete against similar people.

Goalball

- Ball with a bell in it
- Blindfolds
- Long goals
- Correct / suitable flooring
- Knee pads





Equipment for Disabled Individuals

How are these sports different?

- These sports are different because there has needed to be a change in equipment or rules in order for someone to take part and access the sport.
- This might be the use of a wheelchair, use of a guide, change in equipment, might be the athlete has lost the use of a limb.
- However, most of the sports are still the same it is just an equal opportunity for individuals to take part in sport.



Tennis wheelchair

- Wheels tilted inwards
- Less bulky
- No arm rests
- Extra wheels at the front and the back for stability
- Lower back rest
- Footrest is further back
- Legs are strapped in

Amputee Sprinter

- Running with a prostheses
- Running blades







• Wheelchair Basketball

- Wheels tilted inwards
- Less bulky
- No arm rests
- Extra wheels at the front stability
- Lower back rest
- Footrest is further back
- Lap belt to keep the chair attached to you
- Foot rail to protect your feet
- Extremely strong frame to prevent breaking
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What is a facility?

A place, amenity, or piece of equipment provided for a particular purpose.

Indoor facilities

Carried out for a variety of sports. It can help shelter from the weather and typically are smaller spaces.

- Sports Hall
- Gvms .
- Swimming Pools
- Artificial Snow Domes

Sports Hall

- For sports such as:
- Badminton
- Basketball
- Netball •
- ٠ Volleyball

They can also be used for a variety of other sports to train as the weather might hinder the times they can train.

Artificial Snow Domes

These are to allow individuals who are in countries with no snow to learn how to ski or snowboard.

It is available all year round and is not affected by weather.





Swimming Pools

These are specific for water sports. Many swimming, however there are a few other sports that take part in swimming pools.

For example: diving, water polo, kayak polo, synchronised swimming.

Outdoor facilities are required for some sports, this could be due to space, weather, sport specific requirements.

Examples such as outdoor pitches, climbing walls, dry ski slopes, water sports activity centres.



Facilities

Why is the type of facility important?

- Enables high level performance •
- Not all of the equipment is suitable to be both indoor or outdoor.
- Health and safety considerations
- Weather permitting sports

Gvms

- Indoor fitness training centres where individuals from any sport of physical activity can come to train.
- Helps improve all components of fitness. .
- You can make exercises specific to your sport ٠ and each individual.
- ٠ Example pieces of equipment: treadmill, rower, bike, cross-trainer, dumbbells, squat rack, bench press, smith machine.





Outdoor pitches Outdoor pitches can host a variety of

different sports such as football, rugby, hockey, lacrosse, but it depends on the sport as to what surface is it made of.

- Grass
- 3G
- 4G
- Astroturf
- Water based pitch

Climbing Wall

Climbing can be done both indoor and outdoor. When you are outdoor you are more likely to be climbing natural rock faces but outdoor depends on the weather as it can be dangerous if the weather is bad.

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Outdoor facilities

What are officials?

Referees and umpires make sure that the rules of a game are followed. It is the rules (or laws) that make the sport what it is and help to keep all players safe.

Why do they need this equipment?

- Health and safety
- Keep control of the performers
- Communicate with one another
- Effectively judge the sport so it is fair







Computer assisted camera

- Hawk-eye
- Goal line technology camera's Ensure that the correct decisions are made.
- Slows down fast movements that occur to check what's happened.





Video assisted decision making

- Also known as the third official.
- They check the on field decisions to ensure that they are correct.
- This method has to have a qualified referee/umpire to look over the footage and discuss the decision with the on field referee/umpire.

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Officiating Equipment

What type of equipment do they need?

- Whistle
- Microphone and earpiece
- Computer assisted camera's
- Video assisted decision making
- Flags

Whistle

- Everyone has to listen to the whistle
- Keeps control of the game
- So everyone can hear that they need to stop or pay attention to something
- Easy equipment to use
- Cheap piece of equipment
- Helps to manage health and safety

Microphone and earpiece

- Helps to communicate between officials
- Can discuss a decision without everyone hearing
- Quicker and more precise decisions are made within the game
- Provide ongoing support to the main referee



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What is performance analysis?

Where you look at your performance and get information that helps understand the performance.

Helps to identify strengths and weaknesses within a performance.

Smart Watches and Apps

For example, Fitbit, Gamin, Apple, Polar

- Some are stylish and are more for life technology (wallet, text messages, steps), others are for specific sports.
- Track heart rate, Split times, Maps, Track different sports (swimming), Track your sleep etc.





Heart rate monitors

- See the intensity in which you are working.
- Ensure that you are working in the correct target heart rate zone.
- Measure recovery rate.
- Monitor overall fitness resting heart rate.

What equipment could you use?

- Smart watches
- Heart rate monitors
- Action cameras
- **GPS** systems
- Sensors on sporting clothing

GPS System

- Global positioning systems •
- Detect fatigue in matches
- Compare intensity profiles according to player position
- Compare competition skill levels
- Identify the most intense periods of play.
- Maps when out on a run or cvcle.



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Performance Analysis

Why is it useful?

- Can help identify weaknesses in a performance
- Can help to slow down a movement ٠ to analysis in more detail
- Can help to provide effective tactics
- Help to review a performance





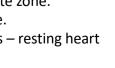
Action Cameras

- Can capture things normal camera's might miss with a delay.
- Be able to withstand harsh weather.
- Can record on wider lenses to get more of the sport in one shot.
- Reduce blurring and maintain high image ٠ quality while in motion.
- Smaller in size

Sensors on sports clothing and equipment

- **Sensors** something which detects or • measures a physical property and records it.
- Calculates heart rate and respiration but also muscle activity and exertion.
- Can identify areas for improvement. ٠













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Component 1: Learning Aim B Knowledge Organiser

Why is technology good to have?

- Can help make more accurate decisions.
- Can make the game safer to play.
- Can help to improve performance with more focused feedback.
- Improvement kit is more comfortable, efficient and safe.
- Creates more engagement in the sport due to available places to view and camera angles.

Cost of technology

- Can be vary expensive for specialised equipment.
- Some lower levels clubs can not afford the equipment.
- Can put people off buying them and leave them at a disadvantage.
- Makes the club membership prices higher to cover the cost.





What technology could be used?

- VAR, Hawk-eye, TMO.
- Performance analysis software such as Dartfish, Hudl,
- Blazepods Reaction time toolkit to improve skills. Heart rate monitor

Time

Wastes time during the session if

Have to have extra staff to keep

Take a long time to set up.

it does not work properly.

an eve on it to make sure it I

Long time to analysis the data

running smoothly.

afterwards.

• Tracking systems



Limitations of Technology

Limitations of technology

- Time
- Access to technology
- Cost of the technology
- Accuracy of data provided by equipment
- Usability specific training required



Access to technology

- Not all clubs can afford the technology.
- Not all clubs have the infrastructure like the wi-fi to be able to deal with the equipment.
- Not all clubs have the extra staff to be able to man the technology and coach the individuals.

Usability



- Sometimes requires specific training to be able to understand how to use it.
- Some people are not very good with technology with can make it more difficult to use.
- The cost of the training costs as well as the equipment itself.
- Some equipment is not as easy as it seems and can be quiet complicated.



Accuracy of data

- If the person using the data has not set it up 100% correct then this could make the data unreliable.
- If re-testing you need to ensure that the equipment is set up the same each time.
- The equipment needs to be in full working order so that it can produce good results.







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Component 1 : Learning Aim C Knowledge Organisers



What is a warm-up? A period or act of preparation for a match, performance, or exercise session, involving gentle exercise or practice.



What is a warm-up?

Sporting examples

- Jogging around the football pitch before stretching.
- 3 minutes on the cross trainer in the gym.
- 2 laps of the sports hall and then complete THE FLOW.

Why is it important?

- Mentally prepare the participant for the sport or physical activity.
- Increased temperature within the body to make the muscles more pliable.
- Increases heart rate

Pulse raiser

This is light exercise that slowly increases the heart rate and gradually increases body temperature. For example, jogging, skipping, cycling. Sporting example – jogging around the area, star jumps, running on a treadmill, using a cross-trainer.





What do you need to include within a warm-up?

- Pulse raiser
- Mobiliser
- Preparation stretches





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Mobiliser

Activities that take the joints through their range of movement starting with small movements and making these bigger as the warm-up progresses. Sporting examples – THE FLOW

Preparation stretches

Activities to stretch the main muscles that will be used in the physical activity. Sporting examples – Deltoid

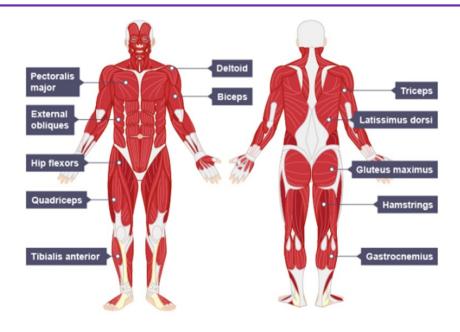






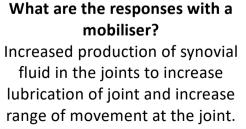
What is the musculoskeletal system?

The major functions of the bones are body support, facilitation of movement, protection of internal organs, storage of minerals and fat, and haematopoiesis. Together, the muscular system and skeletal system are known as the **musculoskeletal system**.



What are the responses with a pulse raiser?

- Increased temperature of the muscles
- Increased pliability of the muscles
- Reduced risk of muscle strain.

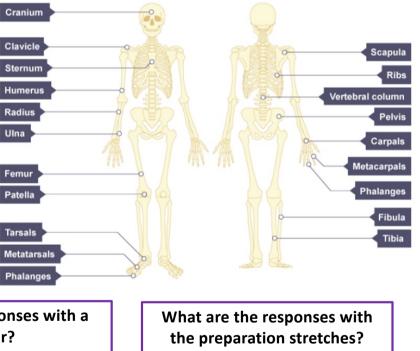


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Musculoskeletal System

What is the purpose of the musculoskeletal system?

Your musculoskeletal system includes bones, muscles, tendons, ligaments and soft tissues. They work together to **support your body's weight and help you move**.



Extending muscles so that they are fully stretched and less likely to tear during the sport or activity session.



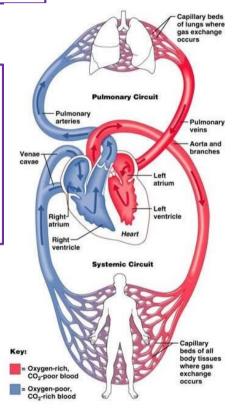
What is the cardiorespiratory system? The cardiorespiratory system consists of the heart and blood vessels, which work with the respiratory system (the lungs and airways).

What are the responses during a pulse raiser?

- Increased heart rate
- Increased breathing rate
- Increased depth of breathing
- Increased supply of oxygen to the working muscles
- Increased removal of carbon dioxide.

What are the responses during the preparation stretches?

- Slight drop in heart rate and breathing rate for static stretches
- Maintained elevated heart and breathing rate for dynamic stretches.



Cardiorespiratory System

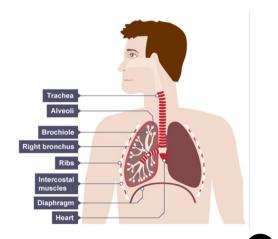
What is the purpose of the cardiorespiratory system?

The cardio-respiratory system works together to get oxygen to the working muscles and remove carbon dioxide from the body.

During exercise the muscles need more oxygen in order to contract and they produce more carbon dioxide as a waste product.

What are the responses during the mobiliser?

- Slight drop in heart rate as intensity of exercise lowers
- Slight drop in breathing rate as intensity of exercise lowers.



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Why would every warm-up not be suitable for everyone?

- An individual may have health issues.
- As you get older your bones become more fragile.
- Different fitness levels.
- Someone may have a disability.
- More advanced performer.



Adapting warm-ups

What adaptations could you make for participants?

- Vary intensity of activities
- Low impact and high impact options
- Vary timing of warm-up longer time frame for beginners, participants with low
- Fitness levels and those aged 50 plus
- Types of stretch used simple stretches for beginners, compound stretch for
- Moderate to advanced participants.





Football example



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What adaptations do you need to make for physical activity?

- Introduction of equipment in the warm-up that is specific to the physical activity
- Using movements and activities from the physical activity in the warm-up
- Stretching the main muscles required for the specific physical activity.



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Component 1: Learning Aim C Knowledge Organiser

Organisation and demonstration of warm-up When organising a warm-up you need to consider the following:

- Space areas used
- Equipment
- Organisation of participants
- Timing
- Demonstrations
- Positioning

Equipment

- Do you need any equipment for the warm-up? Or is it going to get in the way?
- Tag Do you need bibs to identify who is the catcher?
- Relay's Do you need loads of cones on the floor or could you use one cone or a line?

Demonstrations

Why do you think that it is always better to show participants what they have to do?

Help understand the activity more Explains the task in a different way Helps students not be confused over what they have to do.

Positioning Why do you need to think about where you are standing?

Can you see everyone?

Do you need to bring everyone in so that they can hear the instructions? Why do you not want to turn your back to any



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Space

- Think of the space that you have and try and ensure that it is suitable for that.
- Tag Sports Hall 6 students Is that area too big?
- Relay's MUGA 30 students Is that area too small?
- Stretching The Flow routine Raining on the MUGA -Is the weather appropriate?

Timing

- Why do you need to ensure that you stay to the time you have?
- If the activity takes too long what might happen?
 - Get bored?
- If the activity is too quick what might happen?
 - Will they learn the skills they need to?



and active?

More physical activity.

numbers and ability levels.

٠

٠

Supporting participants

When we are leading an activity we need to ensure that individuals are supported appropriately. To do this you could:

- **Observing participants**
- **Providing instructions**
- Providing teaching points
- Providing feedback to participants

Why do we need to support individuals?

- Help build confidence.
- Help someone to improve their technique.
- Become a better performer.
- In order for the team to be successful and win.
- So everyone feels welcomed and like they belong.





Organisation of participants

Why do you want to make sure that everyone is included

Ensure that your groups are even and fair – think about

Less waiting time = Less opportunity to be off task.

More time to learn and practice their skills

