



Understanding the World Science Links - Nursery, Reception

EYFS Statutory Educational Programme: Physical activity is vital in children's all-round development, enabling them to pursue happy, healthy and active lives. Gross and fine motor experiences develop incrementally throughout early childhood, starting with sensory explorations and the development of a child's strength, co-ordination and positional awareness through tummy time, crawling and play movement with both objects and adults. By creating games and providing opportunities for play both indoors and outdoors, adults can support children to develop their core strength, stability, balance, spatial awareness, co-ordination and agility. Gross motor skills provide the foundation for developing healthy bodies and social and emotional well-being. Fine motor control and precision helps with hand-eye co-ordination which is later linked to early literacy. Repeated and varied opportunities to explore and play with small world activities, puzzles, arts and crafts and the practice of using small tools, with feedback and support from adults, allow children to develop proficiency, control and confidence.

Taken from Non-Statutory guidance		Early Learning Goal at the end of
Development Matters 3- & 4-Year Olds	Taken from Non-Statutory guidance Development Matters	Early Learning Goal at the end of Reception children at the expected level
-		· · · · · · · · · · · · · · · · · · ·
will be learning to:	Reception will be learning to:	of development will:
Continue to develop their movement, balancing, riding (scooters, trikes and bikes) and ball skills.	Revise and refine the fundamental movement skills they have already acquired:	ELG: Gross Motor Skills
allu bikes) allu bali skilis.	(rolling, crawling, walking, jumping, running, hopping, skipping, climbing)	Children at the expected level of development will:
Go up steps and stairs, or climb up apparatus, using alternate feet. Skip, hop, stand on one leg and hold a pose for a game like musical statues.	Progress towards a more fluent style of moving, with developing control and grace.	Negotiate space and obstacles safely, with consideration for themselves and others; Demonstrate strength, balance and
	Develop the overall body strength, co-ordination, balance and agility needed to	coordination when playing; Move energetically, such as running,
Use large-muscle movements to wave flags and streamers, paint and	engage successfully with future physical education sessions and other physical	jumping, dancing, hopping, skipping and climbing.
make marks.	disciplines including dance, gymnastics, sport and swimming.	
Start taking part in some group activities which they make up for themselves, or in teams.	Combine different movements with ease and fluency.	
Increasingly be able to use and remember sequences and patterns of movements which are related to music and rhythm.	Confidently and safely use a range of large and small apparatus indoors and	
setting. For example, they decide whether to crawl, walk or run across a	outside, alone and in a group.	
plank, depending on its length and width.	Develop overall body-strength, balance, co-ordination and agility.	
Choose the right resources to carry out their own plan. For example,	Further develop and refine a range of ball skills including: throwing, catching,	
choosing a spade to enlarge a small hole they dug with a trowel.	kicking, passing, batting, and aiming.	
, , , , , , , , , , , , , , , , , , , ,	Develop confidence, competence, precision and accuracy when engaging in activities that involve a ball.	





Year 1

Prior Knowledge

Physical Development Early Learning Goal: Children at the expected level of development will: - Negotiate space and obstacles safely, with consideration for themselves and others; - Demonstrate strength, balance and coordination when playing; - Move energetically, such as running, jumping, dancing, hopping, skipping and climbing

Invasion Sports	Dance	Gymnastics	Strike and Field	Athletics	Net and wall
Improve hand, feet and eye coordination.	Perform basic body actions.	Develop basic control and coordination when travelling	Send an object with confidence using bat or	Evaluate their performance using time.	Control, step and send a ball, using a racquet.
Improve core stability.	Use different parts of the body singly and in combination.	and balancing. Develop basic jumping	foot. Move towards a	Understand quicker and slower ways of travelling.	Enable pupils to work with a partner to improve throwing skills.
Pass and catch a ball.	Show some sense of	movements.	travelling object, and return using hand.	Develop fundamental	Use equipment correctly and safely.
Bounce a ball using one hand.	dynamic, expressive and rhythmic qualities in their own	Carry out basic rolls.	Chase, stop and collect	movement skills such as hopping and skipping.	Hit a ball on both sides of their body.
Control a ball using the foot.	dance. Choose appropriate	Carry and place appropriate apparatus safely with guidance.	a ball. Apply skills to win	Examine a variety of throwing techniques to	Work in pairs, to achieve the successful application of the skill of hitting a ball with a racquet.
Kick a ball at a target.	movements for different dance ideas.	Instill the importance of a good warm-up and cool down.	points.	increase variety.	Dodge, using dynamic movement.
	Remember and repeat short	Work safely and avoid	Demonstrate basic throwing skills towards a	Engage in competition and cooperation physical	Throw with power and accuracy.
	dance phrases and simple dances.	accidental contact.	target.	activities in a range of increasingly challenging	
	Move with control.	Have a basic knowledge of vocabulary used within the lesson.		situations.	
	Vary the way they use space,	iesson.			
	Describe basic body actions and simple expressive and dynamic qualities of movement.				





		Year 2			
Prior Knowledge					
(Y1): Improve hand, feet and eye coordination. Improve core stability. Pass and catch a ball. Bounce a ball using one hand. Control a ball using the foot. Kick a ball at a target.	(Y1): Perform basic body action. Use different parts of the body singly and in combination. Show some sense of dynamic, expressive and rhythmic qualities in their own dance. Choose appropriate movements for different dance ideas Remember and repeat short dance phrases and simple dances.	(Y1): Develop basic control and coordination when travelling and balancing. Develop basic jumping movements. Carry out basic rolls. Carry and place appropriate apparatus safely with guidance. Instill the importance of a good warmup and cool down.	or foot. Move towards a travelling object, and return using hand. Chase, stop and collect ball.	time. Understand quicker and slower ways of travelling. Develop fundamental movement skills such as hopping and skipping. Examine a variety of throwing techniques to increase variety.	Y1): Control, step and send a ball, using a racquet Enable pupils to work with a partner to improve throwing skills Use equipment correctly and safely Hit a ball on both sides of their body Work in pairs, to achieve the successful application of the skill of hitting a ball with a racquet Dodge, using dynamic movement Throw with power and accuracy
	Move with control. Vary the way they use space. Describe basic body actions and simple expressive and dynamic qualities of movement.	Work safely and avoid accidental contact. Have a basic knowledge of vocabulary used within the lesson.		Engage in competition and cooperation physical activities in a range of increasingly challenging situations.	
Invasion Sports	Dance	Gymnastics	Strike and Field	Athletics	Net and Wall
and consistency. Improve footwork skills. Bounce a ball using one hand with control and confidence. Demonstrate the correct technique when throwing a ball into a basketball hoop.	Perform short dances, showing an understanding of	Improve and increase repetition of rolls learnt. Move smoothly from a position of balance/shape to a travelling movement and then back to another balance/shape. Use different combinations of floor mats and apparatus, showing control, accuracy and fluency.	Send an object with increased confidence using bat or foot. Move towards a travelling object, and return with an accurate throw. Chase, stop and collect ball. Apply skills to win points. Identify space to send ball.	Attempt a variety of throwing techniques in order to improve accuracy. Know and understand how the position of the body affects throwing performance. Develop fundamental movement skills by becoming increasingly competent and	Demonstrate basic sending skills in pairs. Track the path of a ball over a line/net and move towards it. Hit a ball using hand or racquet with some consistency. Hit the ball on both sides of the body.
Improve control of a ball using the feet. Understand the concept of a team game and its rules. Start to understand how to find space and support teammates.	expressive qualities. Describe how dancing affects their body. Know why it is important to be active. Suggest ways they could improve their work. Be able to link and perform a series of movements based on imaginary characters.	Devise, repeat and perform a short sequence in which there is a clear beginning, middle and end. Recognise and describe how they feel after exercise. Recognise and avoid risks when handling and placing apparatus.	Demonstrate basic throwing skills towards a target.	increasingly competent and confident, and access a broad range of activities to improve their agility, balance and coordination. Engage in competitive and cooperative physical activities in a range of increasingly challenging situations. Perform 1:2, 2:2, 2:1 and 1:1 jumps. Understand how different jumping techniques affect distance	Use equipment correctly. Be safe using racquet. Control a ball on a racquet using individual skills. Throw and dodge, using dynamic movement.





	Year 3							
Prior Knowledge								
(Y2): Pass and catch a ball with more accuracy and consistency. Improve footwork skills. Bounce a ball using one hand with control and confidence. Demonstrate the correct technique when throwing a ball into a basketball hoop. Improve control of a ball using the feet. Understand the concept of a team game and its rules. Start to understand how to find space and support teammates.	Y2): Perform body actions with control and coordination. Choose movements with different dynamic qualities to make a dance phrase that expresses an idea, mood or feeling. Link actions. Remember and repeat dance phrases. Perform short dances, showing an understanding of expressive qualities. Describe how dancing affects their body. Know why it is important to be active. Suggest ways they could improve their work. Be able to link and perform a series of movements based on imaginary characters.	(Y2): Improve and increase repetition of rolls learnt. Move smoothly from a position of balance/shape to a travelling movement and then back to another balance/shape. Use different combinations of floor mats and apparatus, showing control, accuracy and fluency. Devise, repeat and perform a short sequence in which there is a clear beginning, middle and end. Recognise and describe how they feel after exercise. Recognise and avoid risks when handling and placing apparatus.	(Y2): Send an object with increased confidence using bat or foot. Move towards a travelling object, and return with an accurate throw. Chase, stop and collect a ball. Apply skills to win points. Identify space to send ball. Demonstrate basic throwing skills towards a target.	in order to improve accuracy. Know and understand how the position of the body affects throwing performance. Develop fundamental movement skills by becoming increasingly competent and confident, and access a broad range of activities to improve their agility, balance and coordination.	(Y2): Demonstrate basic sending skills in pairs. Track the path of a ball over a line/net and move towards it. Hit a ball using hand or racquet with some consistency. Hit the ball on both sides of the body. Use equipment correctly. Be safe using racquet. Control a ball on a racquet using individual skills. Throw and dodge, using dynamic movement.			
Invasion Sports Develop dribbling and shooting skills using different body parts and equipment. Improve individual basketball bouncing skills using alternate hands. Demonstrate correct shooting technique into a basketball net. Improve control of a ball using the feet. Encourage teamwork and understand their role within a game. Apply skills to different games. Highlight safe practice. Be aware of different warming-up and cooling down activities.	Understand the importance of warming up and cooling down. Recognise and talk about the movements used and the expressive qualities of dance.	Gymnastics Work with a partner to perform different balance actions. Continually improve the various learnt rolls to perfect skills. Explore combinations of floormats and apparatus, and find different ways of using a shape, balance or travel. Be aware of the importance of warming up. Devise and perform a gymnastic sequence, showing a clear beginning, middle and end. Recognise and avoid risks when handling and placing apparatus. Have awareness of the space around them.	Strike and Field Catch and pass in pairs. Use a variety of throwing techniques. Strike a ball using a variety of different equipment. Track a moving target, retrieve and return. Comprehend the rules of the games. Use equipment correctly and safely.	Athletics Run at fast, medium and slow speeds, changing speed and direction. Run, jump and throw using a variety of techniques. Know and understand how altering the movement of any part of the body during performance affects end results. Learn to use skills in different ways and link them to make action. Develop an understanding of how to improve in different physical activities. Make students aware of different warming-up and cooling down activities.	Net and Wall Improve forehand and backhand shots Perform an under arm serve Work with partner to perform a continuous rally Keep control of a ball Use the racquet in a safe and correct way Perform a volley and dig in volleyball Play a simplified game of volleyball			





Year 4							
Prior Knowledge							
(Y3): Develop dribbling and shooting skills using different body parts and equipment. Improve individual basketball bouncing skills using alternate hands. Demonstrate correct shooting technique into a basketball net. Improve control of a ball using the feet. Encourage teamwork and understand their role within a game. Apply skills to different games. Highlight safe practice. Make students aware of different warming-up and coolin down activities.	mprovise freely, translating ideas from a stimulus into movement. Create dance phases that communicate ideas. Share and create dance phases with a partner and in a small group. Repeat, remember and perform these phases in a dance. Use dynamic, rhythmic and expressive qualities clearly, with control. Understand the importance of warming up and cooling down. Recognise and talk about the movements used and the expressive qualities of dance. g Suggest improvements to their own and other people's dances.	(Y3): Work with a partner to perform different balance actions. Continually improve the various learnt rolls to perfect skills. Explore combinations of floormats and apparatus, and find different ways of using a shape, balance or travel. Be aware of the importance of warming up. Devise and perform a gymnastic sequence, showing a clear beginning, middle and end. Recognise and avoid risks when handling and placing apparatus. Have awareness of the space around them.	(Y3): Catch and pass in pairs. Use a variety of throwing techniques. Strike a ball using a variety of different equipment. Track a moving target, retrieve and return. Comprehend the rules of the games. Use equipment correctly and safely.	(Y3): Run at fast, medium and slow speeds, changing speed and direction. Run, jump and throw using a variety of techniques. Know and understand how altering the movement of any part of the body during performance affects end results. Learn to use skills in different ways and link them to make action. Develop an understanding of how to improve in different physical activities. Make students aware of different warming-up and cooling down activities.	Use the racquet in a safe and correct		
Invasion Sports	Dance	Gymnastics	Strike and Field	Athletics	Net and Wall		
Introduce new passing skills and improve learnt ones. Improve shooting technique at a basketball net. Use a variety of simple tactics for attacking, keeping possession of the ball as a team and getting into positions to score. Pass and dribble with control under pressure. Know the rules of the game being played. Use equipment safely. Relate warm-up and cool-down towards the focused activity.	Respond imaginatively to a range of stimuli related to character and narrative. Use simple motifs and movement patterns to structure dance phases on their own, with a partner and in a group. Refine, repeat and remember dance phases and dances. Perform dances clearly and fluently. Show sensitivity to the dance idea and the accompaniment. Show a clear understanding of how to warm up and cool down safely. Describe, interpret and evaluate dances. Using appropriate vocabulary.	Perform a range of balance agilities with a partner that has consistency, stability and clarity. Combine actions to make sequences with changes of speed, level, direction and clarity of shape. Revisit and improve skills already learnt. Recognise and avoid risks when handling and placing apparatus. Instill a sense of spatial awareness when performing activities. Improve strength and suppleness.	Catch and pass in a group. Use a variety of throwing techniques, with both hands. Strike a ball whilst in the correct body position. Increase knowledge of the game, and rules. Work successfully within a team, and carry out different roles. Reinforce safety points.	Link running and jumping activities with some fluency, control and consistency. Make up and repeat a short sequence of linked jumps. Take part in a relay activity, remembering when to run and what to do. Throw a variety of objects, changing their action for accuracy and distance. Recognise when their heart rate, temperature and breathing rate has changed. Relate warm-up and cool-	Serve and return a ball consistently over a net, using forehand and backhand. Control the ball using racquet skills. Use the racquet in a safe and correct way. Serve, volley, and dig a ball in volleyball. Play a simplified game of volleyball, before increasing difficulty.		
				Relate warm-up and cool- down towards the focused			





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Year 5							
Prior Knowledge							
(Y4): Introduce new passing skills and improve learnt ones.	(Y4): Respond imaginatively to a range of stimuli related to character and narrative.	(Y4): Perform a range of balance agilities with a partner that has consistency, stability and	(Y4): Catch and pass in a group. Use a variety of throwing techniques, with	(Y4): Link running and jumping activities with some fluency, control and consistency.	(Y4): Serve and return a ball consistently over a net, using forehand and backhand.		
Improve shooting technique at a basketball net.	Use simple motifs and movement patterns to structure dance phases on their own, with a partner and in a group.	clarity. Combine actions to make sequences with changes of speed, level, direction and	both hands. Strike a ball whilst in the correct body	Make up and repeat a short sequence of linked jumps.	Control the ball using racquet skills. Use the racquet in a safe and correct way.		
Use a variety of simple tactics for attacking, keeping possession of the ball as a team and getting into positions to score.	Refine, repeat and remember dance phases and dances.	clarity of shape. Revisit and improve skills already learnt.	position. Increase knowledge of the game, and rules.	Take part in a relay activity, remembering when to run and what to do.	Serve, volley, and dig a ball in volleyball.		
Pass and dribble with control under pressure.	Perform dances clearly and fluently.	Recognise and avoid risks when handling and placing apparatus.	Work successfully within a team, and carry out different roles.	accuracy and distance.	Play a simplified game of volleyball, before increasing difficulty.		
Know the rules of the game being played. Use equipment safely.	Show sensitivity to the dance idea and the accompaniment. Show a clear understanding of how to warm up and	Instill a sense of spatial awareness when performing activities.	Reinforce safety points.	Recognise when their heart rate, temperature and breathing rate has changed. Relate warm-up and cool-down towards the focused			
Relate warm-up and cool-down towards the focused activity.	cool down safely. Describe, interpret and evaluate dances using	Improve strength and suppleness.		activity.			
Invasion Sports	appropriate vocabulary. Dance	Gymnastics	Strike and Field	Athletics	Net and Wall		
Improve different passing			Strike and Fleid Strike a ball consistently, and		Perform all volleyball		
	creatively and collaboratively in	sequences with more	with control.	difference between sprinting and	shots with control and		
Using footwork to catch and pass the ball.	groups.		Improve catching and throwing skills.	running for sustained periods. Know and demonstrate a range	accuracy. Identify the best way to		
Find and move into space away	Adapt and refine the way they use weight, space and rhythm in their dances to express	actions and agilities that show clear differences	_		serve in volleyball.		
from defenders.		between levels, speeds and	Develop their own skills, to	Throw with some accuracy and power into a target area.	Have continuity in a game, whilst improving		
Throw a ball into a hoop using the correct technique.	Perform different styles of dance	Allow pupils to self-teach	improve their game.		skill levels, and working within a team.		
Gradually introduce the various		and improve their verbal communication.	Play safely.	showing consistent technique	Serve and return a		
rules surrounding netball.	Organise their own warm up and	Know why strength and	Understand all rules of a game being played.		badminton shuttlecock.		
Have knowledge and experience of different roles and positions within the game.	Show an understanding of safe	suppleness are important in gymnastics.		1	Play a game with a partner.		
5 5 5	exercising.	Have responsibility for their			Have an understanding of the rules.		
warm-up and cool down.	dances, showing an	own safety.		temperatures, and use some of	Warm up the appropriate		
	understanding of style.	Learn how to evaluate their own and others			body parts.		
	Suggest ways to improve their own and other people's work.	performance.		Compare and contrast performance using appropriate language			





Year 6						
Prior Knowledge						
(Y5):	(Y5):	(Y5):	(Y5):	(Y5):	(Y5):	
Improve different passing techniques.	Compose motifs and plan dances creatively and	Carry out more complex sequences with more	Strike a ball consistently, and with	Understand and demonstrate the difference	Perform all volleyball shots with control	
Using footwork to catch and pass the ball.	collaboratively in groups.	difficult actions.	control.	between sprinting and running for sustained beriods.	and accuracy.	
	Adapt and refine the way they use weight, space	Perform combinations of actions and agilities	Improve catching and throwing		Identify the best way to serve in	
Find and move into space away from defenders.	and rhythm in their dances to express themselves	that show clear differences between levels, speeds and direction.	skills.	Know and demonstrate a range of throwing techniques.	volleyball.	
Throw a ball into a hoop using the correct technique.	in the style of dance they use.		Use a range of fielding skills.	·	Have continuity in a game, whilst	
Gradually introduce the various rules surrounding netball.	Perform different styles of dance clearly and fluently.	Allow pupils to self-teach and improve their verbal communication.	Develop their own skills, to improve their game.	Throw with some accuracy and power into a targe area.	timproving skill levels, and working within a team.	
Have knowledge and experience of different roles and positions within the game.	Organise their own warm up and cool down exercises.	Know why strength and suppleness are important in gymnastics.	Play safely.	Perform a range of jumps, showing consistent technique and sometimes using a short run up.	Serve and return a badminton shuttlecock.	
Understand the importance of warm-up and cool down.	Show an understanding of safe exercising.	Give them responsibility for their own safety.	Understand all rules of a game being played.	Play different roles in small groups.	Play a game with a partner.	
		Learn how to evaluate their own and others		Relate different types of activity to different heart rates and body temperatures, and use some of	Have an understanding of the rules.	
	Recognise and comment on dances, showing an understanding of style.	performance.		these activities when warming up.	Warm up the appropriate body parts.	
	Suggest ways to improve their own and other people's work.			Compare and contrast performances using appropriate vocabulary.		
Invasion Sports	Dance	Gymnastics	Strike and Field	Athletics	Net and Wall	
Use different techniques for passing,		Make up longer sequences and	Bring all skills together	Choose the best pace for a	Increase skill levels in a variety	
controlling, dribbling and shooting the ball	their own, with a partner and in a group		in a variety of	running event, so that they can	of different net sports.	
in games.	to compose motifs and structure simple	clarity of movement.	games/sports.	sustain their running and		
Analy basis principles of to one play to	dances.			improve on a personal target.	Have a range of different	
Apply basic principles of team play to keep possession of the ball, use		,	Consistently catching a		shots depending on	
markings, tackling and/or interception to	Perform to an accompaniment	control even when performing	ball.	Show control at take-off in jumping	situation.	
improve their defence.	expressively and sensitively	difficult combinations.	Christian and a street of	activities.		
improve their defence.			Strike a moving target	L	Increase knowledge of different	
Identify strengths within a team and how	Perform dances fluently and with	Let pupils take responsibility for	consistently.	Show accuracy and good	net and wall sport rules.	
they can use them to their advantage.	control.	their own and other pupils	Throw accurately at a	technique when throwing for		
and y can doo mon to their advantage.	Mare up and and device	learning.	Throw accurately at a target.	distance.	Play safe.	
Understand the rules of a game and	Warm up and cool down	Hadanstond bass manage	laryet.	Usadanatan dibanatanaiaa a	M/awa up the appropriate	
follow them.	independently.	Understand how gymnastic	Play safely.	Understand how stamina and	Warm up the appropriate	
	I landountourd house desires to the	activities help their overall	i lay salely.	power help people to perform	body parts.	
Make pupils more of their surroundings	Understand how dance helps to keep	health.	Encourage fair play,	well in different athletic	Evaluata appanent	
and opportunities for attack.	them healthy.	Contrada da sina anal ada a	and experience the	activities.	Evaluate opponent's	
		Evaluate theirs and others	feeling of winning and	I dontify good othlotic	weaknesses, and exploit them	
Use misdirection to gain advantage in	Use appropriate criteria to evaluate	performances using appropriate	losing.	Identify good athletic	within a game plan.	
attack.	and refine their own and others work.	gymnastic vocabulary.	ioonig.	performance and explain why it		
	Talk about dones with understanding	05		is good, using agreed criteria.		
Understand the importance of warm-up		Give them responsibility for their		Understand the investor of		
and cool down.	using appropriate vocabulary and	own safety.		Understand the importance of		
	terminology.	1		warm-up and cool down.		