# Literacy for All In Our Playrooms





# **Fine and Gross Motor Development**





### Glasgow's Improvement Challenge (GIC) Health & Safety

"Distance Aware" ..... Encouraging people to take care and respect the space of others

All participants should choose a seat on entry and use this space for the full training session. Please wipe desks/communal tables before leaving.

Doors and windows will be opened to increase natural ventilation where it is practical, safe and secure to do so while maintaining appropriate internal temperatures.

Tea and toilet facilities should be used at designated areas, following signage





# **House-Keeping**

- **Fire Alarm:** Tested Wednesday at 10am. No other fire alarm planned so in the instance of hearing it please take guidance from the trainer and make your way to the nearest exit. Be mindful of the children attending Royston Primary, if you feel you could support the class teacher in getting the class out safely please do so.
- **Parking:** Please be considerate of residents and that if parking attendants do patrol the area they will give tickets to cars parked on the pavement or on yellow lines during restricted times.
- **Refreshments:** Please ensure that at the end of training all cups, spoons etc are placed in the bins provided.



• Facilities: male/female toilet locations







# Last session feedback

Have a go...

- Plan for and use a text with children to encourage the Three Sharings. Think carefully about the questions and record some responses.
- Lead/think about a story acting session.







# Aims

- Introduction to mark making and emergent writing
- Gross and fine motor skills
- Enabling environments







# Motor Development and Mark Making









### Motor Development and Mark Making





"Understanding the link between gross and fine motor skill development is crucial for practitioners. Children are better equipped to make fine motor movements if they also have adequate opportunity to develop their gross motor skills. Both are linked. In the development of writing, children need to not only be provided with a wide range of markmaking opportunities when they are small, but also be able to explore other experiences such as manipulating clay or using peg boards, completing jigsaws or sewing to fully develop the small muscles in their hands."

*Realising the Ambition p70 6.4 Playful Literacy* 







## What is mark making?

Mark making in early years refers to the early stages of writing and drawing development in young children. It involves the use of various tools and materials to create marks, lines, and shapes on paper or other surfaces. Mark making is a crucial precursor to formal writing and drawing skills and plays a significant role in a child's overall development.

**Exploration:** Mark making begins as a form of exploration and experimentation. Young children use their hands, fingers, and various objects to make marks on different surfaces. This exploration helps them understand cause and effect, as they learn that their actions create visible results.



**Fine Motor Development:** Mark making activities contribute to the development of fine motor skills. As children grasp crayons, pencils, or other writing tools and use them to make deliberate marks, they refine their hand-eye coordination and dexterity.





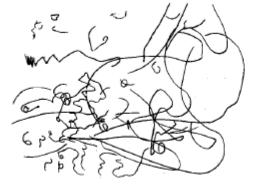


### What is emergent writing?

Emergent writing in early years refers to the early and developmental stages of writing that young children go through before they are able to produce conventional, legible, and mature writing. It is a critical phase in the literacy development of a child and involves their initial attempts at using symbols and marks to convey meaning through writing.

**Symbolic Representation:** Emergent writing involves the use of symbols, marks, and drawings to represent words, ideas, or stories. Children may use scribbles, shapes, or even random letters to convey meaning.

It is a critical stepping stone towards becoming literate and is nurtured through exploration, practice, and guidance from adults in the child's environment.









# When do the skills for mark making and writing begin to develop?

- The foundations for becoming a confident writer begin at birth
- Writing begins long before a child can hold or control pencils or pens.
- All children will need to develop their muscles for writing
- Development of these muscles can be influenced by many factors e.g a child's sex, opportunities for experience, motivation, interest









Gross motor skills are a set of physical abilities and movements that involve the large muscles of the body and enable activities like walking, running, jumping, and other physical activities that require coordination and strength. These skills are essential for various everyday tasks and activities, as well as for overall physical development. Gross motor skills involve the use of multiple body parts and are important for functions like balance, posture, and overall mobility.







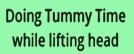




# **Growth and Development of Muscular Control**

- Control of our muscles develop in a 'typical' order.
- They develop slowly and build upon each other
- Develop from the inside out and top to bottom.



























# Fine Motor Skills

### These are the last to be developed and refined...

- Developing control of hands and fingers is a difficult task for most children and very difficult for some.
- Boys are less attracted to activities involving the use of fine motor skills and may prefer more physical activities, using the strength and gross motor skills they have already mastered.











# Fine Motor Skills

Factors affecting motor skills development:

Missed or incomplete stages of muscular development

The Environment

Gender

Engagement in risky play

Developmental delays









# Discussion

 What are you currently doing in your setting to promote both fine and gross motor development indoors and out?

















# **Gross to Fine motor Skills**

- 1. Shoulder Pivot Grip
- 2. Elbow Pivot
- 3. Wrist Pivot
- 4. Static Tripod Grasp
- 5. Dynamic Tripod Grasp

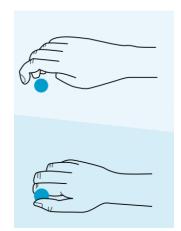






# Stage 1 Shoulder Pivot – Grip

- Stiff wrist and straight elbow
- Movement from shoulder



- upper body muscles in shoulder, back and neck stronger and so can be used to help the hand make marks
- At this stage children will often make long, straight or large circular movements



**Motor Skills** 



## **Stage 1 Activities to support**











# Shoulder pivot











Stages of Gross and Fine Motor Development	Suggestions for experiences and spaces
<ul> <li>Stage 1</li> <li>Shoulder pivot</li> <li>Wrist fairly stiff, straight elbow, motion comes mainly from shoulder.</li> </ul>	<ul> <li>Children will require large spaces to be able to do large movements and marks as they are still developing a sense of proprioception (our sense of awareness our body in space) and balance.</li> <li>Encourage reaching, stretching and full use of shoulder joint.</li> <li>Washing walls outside with soap and brushes</li> <li>Painting with mops</li> <li>Sweeping leaves with large brooms</li> </ul>
<ul> <li>Palmer grasp</li> <li>Children will have developed as a grasp that enables</li> </ul>	<ul> <li>Swing painting (tights and teabags)</li> <li>Climbing frames, trees, trim trails</li> <li>Swinging on bars</li> <li>Rolling tyres</li> </ul>
<ul> <li>them to grip an object without dropping it.</li> <li>Fingers wrap around object and the object is held in the middle of the hand.</li> </ul>	<ul> <li>Big digging in sand and soil</li> <li>Newspaper fish/fan with card</li> <li>Play-dough gym – stretching, kneading</li> <li>Drawing under table</li> <li>Parachute – up and down</li> <li>Keeping balloon in the air – racquet</li> </ul>

### https://blogs.glowscotland.org.uk/gc/gccleadersofearlylearning/









# Stage 2 Elbow Pivot (palmer grasp)



- Elbow now doing most of the work
- Shoulder more of a support
- Two stages within:

**Motor Skills** 

- Emergent stage: elbow bends to give movement but main power still from shoulder
- Advanced Elbow Pivot: using muscles in upper and lower arm to swing arm away from body in circular motion. Wrist stays quite stiff.







# Stage 2 Activities to support























# Elbow pivot









### Stage 2

### Elbow pivot

- More movement from elbow with some still from shoulder at first, wrist still fairly stiff.
- Use muscles within upper and lower arm to swing arm away from body in circular motion.

### Palmer supinate grasp

- Supinate means wrist rotated up.
- Typically developing approx. 12-18 months.
- SF.

Children will still require large spaces to move their arms up and down and side to side.

Encourage movement from the elbow, whilst still developing shoulder pivot.

- Pulling bodies up and down on ropes/climbing frames
- o Ribbon/scarf twirling
- o Throwing and catching using elbows to push the hand forward
- Sawing wood, hammering nails/golf tees (close supervision)
- o Stirring in pots and buckets baking, mud kitchen, water and sand play
- Making patterns in the sand with lolly sticks turned on their sides
- o Sticking and pulling plungers from vertical and horizontal surfaces
- Mark making on vertical and horizontal surfaces with rollers, long handled brushes
- Using a decorating roller to 'paint' the walls outside (paint or soapy water)
- Drawing circles onto large sheets of paper (to music)
- Anything with a sweeping/circular motion (brushes and leaves, foam, washing cars/scooters/ windows)
- o Flour shakers
- Play-dough/plasticine different textures and resistance

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# Stage 3 Wrist Pivot (digital pronate)

- Grasp with palm facing down and using finger to grasp
- Holding with finger
- Wrist straight
- Often elbow tucked into body
- Minimal shoulder movement and forearm moving as a unit







# **Stage 3 Activities to support**























# Wrist pivot









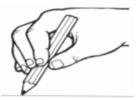
Stages of upper body development	Suggestions for experiences and spaces
Stage 3	Children may require less space and movements will generally be smaller and more controlled.
Wrist pivot	You may wish to reduce the scale of activities in order to help children focus on this
<ul> <li>Pivot moves to the wrist. Elbow tucks in</li> </ul>	development.
to side of body and shoulder movement	Encourage children to use a range of wrist movements to build muscle strength.
minimal. Forearm moves as a whole unit.	<ul> <li>Play-dough gym – rolling, stretching, squashing</li> </ul>
<ul> <li>Overall movement and balance becoming</li> </ul>	<ul> <li>Clay - dry and wet – resistance of different materials</li> </ul>
more fluid.	<ul> <li>Painting with smaller rollers</li> </ul>
1	<ul> <li>Screwing action – screwdrivers, nuts and bolts, jars and bottles with lids</li> </ul>
Digital pronate grasp	<ul> <li>Thick mark making tools – chunky chalks</li> </ul>
Wrist facing down and	<ul> <li>Throwing and catching – splatter painting</li> </ul>
fingers holding tool.	<ul> <li>Tossing balloon in the air – wrist flipping</li> </ul>
<ul> <li>Typically developing</li> </ul>	<ul> <li>Weight-bare through wrists – crawling, crab walking, bridging</li> </ul>
approx. 2-3 years old.	<ul> <li>Parachute games</li> </ul>

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# Stage 4 Static Tripod Grasp

- Using three fingers thumb, index and middle
- Tools held like a dart
- Movement mainly from the wrist
- Some finger movement as hand strength improves
- Using other hand to maintain balance
- Will need to develop control of pincer grasp or grip, palm arches, in hand manipulation







# **Stage 4 Activities to support**









	Children will require opportunities to develop strength in their fingers and palm arch leading to
Stage 4	greater control in the use of their pincer grasp.
Static tripod grasp	<ul> <li>Threading (laces, Cheerio's on a stick etc)</li> </ul>
Mark making tools	<ul> <li>Sewing or weaving</li> </ul>
are held similar to	<ul> <li>Dabbing with a sponge or brush</li> </ul>
holding a dart.	<ul> <li>Fishing game</li> </ul>
Movement comes	<ul> <li>Finger football</li> </ul>
mainly from wrist with some finger	<ul> <li>Splatter painting</li> </ul>
movement as hand strength develops.	<ul> <li>Mark making on smaller surfaces</li> </ul>
<ul> <li>Typically developing approx. 3 ½ -4 years</li> </ul>	<ul> <li>Play-dough gym –rolling in hand, stretching squeezing, squashing</li> </ul>
old.	<ul> <li>Wringing out wet sponges</li> </ul>
	<ul> <li>Scrunching up paper</li> </ul>
	<ul> <li>Rolling objects in hand – conkers, marbles</li> </ul>
	<ul> <li>Turning on and off taps</li> </ul>
	<ul> <li>Planting seeds</li> </ul>
	<ul> <li>Constructing with small Lego</li> </ul>
	<ul> <li>Pegging up washing/material to make dens</li> </ul>
	<ul> <li>Finger rhymes</li> </ul>

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- Using thumb, first and middle finger to hold tools
- Other fingers arched to aid grip
- Fingers beginning to move independently
- More fluid movement







### **Stage 5 Activities to support**









Stages of upper body development	Suggestions for experiences and space
<ul> <li>Stages of upper body development</li> <li>Stage 5</li> <li>Static tripod grasp <ul> <li>Thumb, first and middle finger hold tool.</li> </ul> </li> <li>Other fingers arched to aid grip.</li> <li>Movement of the fingers can be see with careful observation.</li> <li>Movement and marks becoming more fluid.</li> <li>Typically developing approx. 4-5 years old.</li> </ul>	<ul> <li>This stage can take longer to develop. Children should be given continued opportunities to develop the following: pincer grip, palm arch, in-hand manipulation, thumb opposition, finger isolation, bi-lateral integration, crossing the midline and hand-eye co-ordination.</li> <li>Picking up small objects with fingers, tweezers (e.g. beads, sequins, grains of rice)</li> <li>Scooping up objects with hands</li> <li>Elastic bands on geoboards, golf tees, pine cones</li> <li>Scrunching/squeezing balls of paper, porridge oats and water in tuff-spot, playdough, sponges</li> </ul>
<ul> <li>Increased dexterity as fingers can manipulate small, fiddly objects with greater control due to the development of thumb opposition (the ability to move thumb and fingers to enable them to touch one another) and finger isolation (fingers can move one at a time).</li> <li>The use of both sides of body simultaneously and together (bi- lateral integration) and reaching across the midline to complete tasks aids fluid movements and marks.</li> </ul>	<ul> <li>Baking – mixing and holding bowl in opposite hand</li> <li>Baking sandwiches/toast – spreading and cutting</li> <li>Padlocks and keys</li> <li>Dry spaghetti pushed through holes in colander or sugar shaker</li> <li>Lollipop sticks with Velcro ends for construction</li> <li>Moving water with pipettes, turkey basters, straws (dip in water, block end with thumb, transfer to another pot)</li> <li>Play-dough gym</li> <li>Independent dressing - buttoning, zipping, push buttons, Velcro</li> <li>Threading and weaving</li> <li>Finger rhymes</li> <li>Manipulating touch screen devices e.g. SMARTboard, iPad</li> <li>Touch buttons – tills, computer keyboard, telephones</li> <li>Parachute/elastic fabrics for songs and games</li> </ul>

\*Images sourced from Erdhart, (1994) citied in NHS Foundation Trust: Children, Young People and Families Occupational Therapy Team Handwriting Development





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# Other aspects to consider

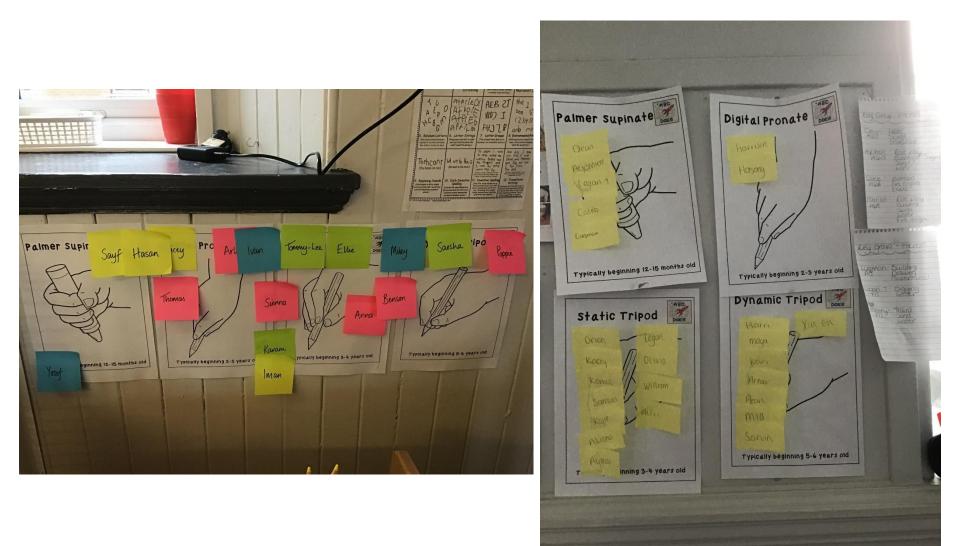
 Bilateral Integration: ability to use both side of the body simultaneously and together

 Shoulder and Girdle Stability: core body strength





















 Using the mapping template consider how you could plan to promote opportunities for 5 stages of gross and fine motor skills within a chosen area of your indoor/outdoor provision.

Task

• Consider provocations, experiences, resources and use of space.





## **Emergent Writing Skills**

I can hold a pencil using a palmer grasp to mark make.	mark wide	n make s using a range of terials.	I can hold a pencil using a digital pronat grasp to mark make.	e e	I can manipulate and use small tools.		can use small tools with control and accuracy.	I can ho pencil w tripod gra mark mark	ith a asp to	l can make marks with control.
I can make marks during play.		I can 'write' during play and explain what my 'writing' means		of	I can 'write' for a range of different purposes i.e. to label, create stories, write letters/cards		I can create my own drawings and talk about them.		I can ask an adult to scribe my thoughts and feelings when I draw and create my own stories.	







# **Enabling Environments**











## "Do it big and do it outside!"

### Sue Gifford, Early Years Conference 2019











### **Promote Pretend Play**

"Many experts believe that symbolic play is critical to a child's cognitive development in that it fosters abstract thought, problem—solving, selfcontrol, and creativity." Hanen







### **Role Play and Experimentation**













### **Role Play and Experimentation**

















### Socio-dramatic Play

Discuss:

What does role play look like in your setting?

Are children always learning when there is high level of engagement in role play?

















### Why? –Open- ended resources will give more potential for the development of imagination with adult support







### Deconstructed Role Play

What? - Deconstructed role play allows children to fully engage in the experiences without any **limitations** on their imagination. It creates a language rich learning space where children can interact with one another sharing ideas and developing their own play scenarios. Children can make sense of the world around them by exploring and investigating things that are current, relevant and interest them







### **Deconstructed Role Play**

*How?* – You are going to fill your identified space with...

- Cardboard boxes
- Crates
- Large sheets
- Bread trays
- Fabrics

....the list is endless

**BUT...** 



Let's not throw the baby out with the bath water.

You may still have a house corner!











## What will I need?

- Cardboard boxes of differing sizes
- Cable reels
- Selection of fabric
- String
- Tubes
- Crocodile clips
- Large scale junk modelling
- Masking tape
- Portable mark making kit
- Large sheets











## Enhancements

### What you need

- Basket or box
- Resources that are themed around a specific interest e.g. doctor, builder or vet
- Books to support and enhance the theme
- Mark making materials

### What to do

- 1. Identify themes that you wish to cover in your role-play.
- 2. Identify key areas of interest for children that they have expressed through their play.
- 3. Create an enhancement basket of resources to support these themes.
- 4. Take the enhancement baskets into your deconstructed role-play area to support children's learning.













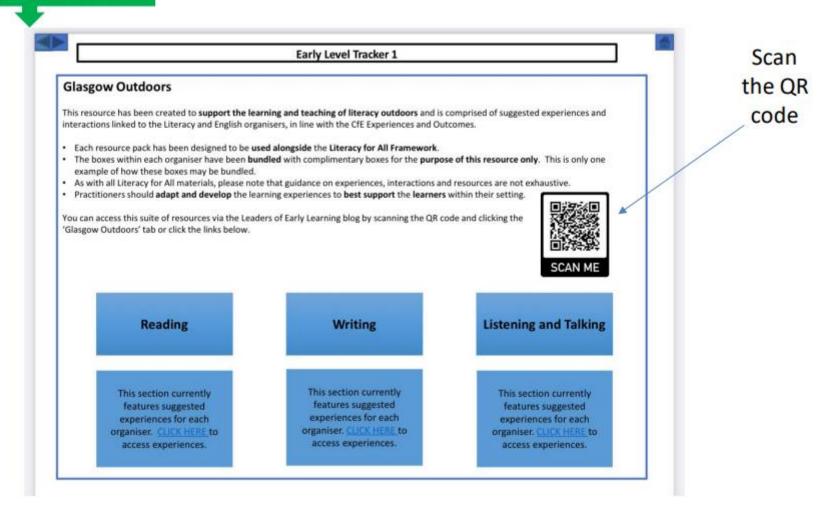
### **Mark Making**

Providing backing paper with a variety of tools allows the children to create drawings which are related to their play scenario









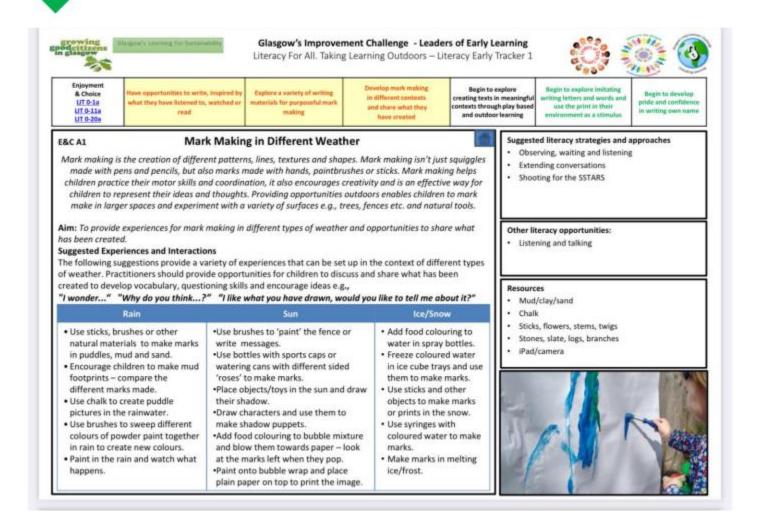










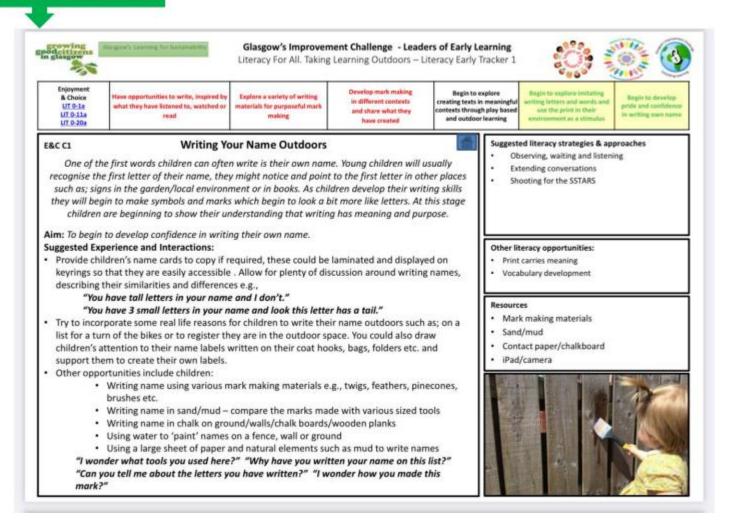












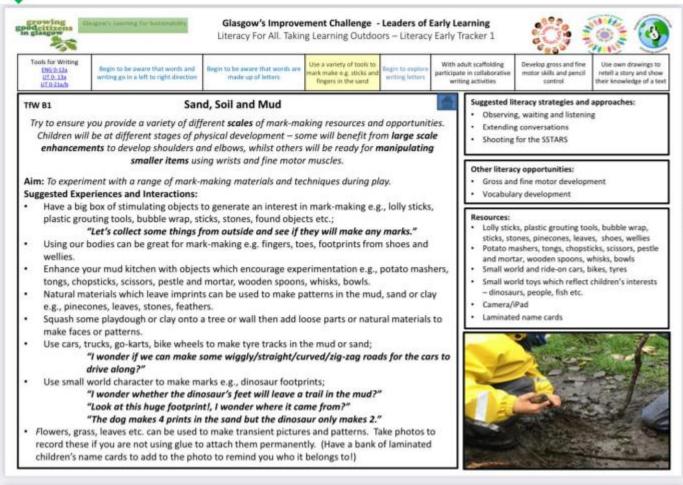










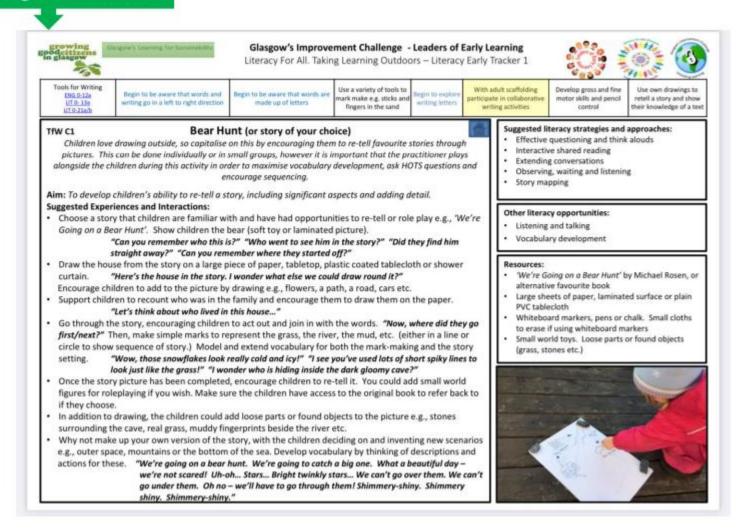




















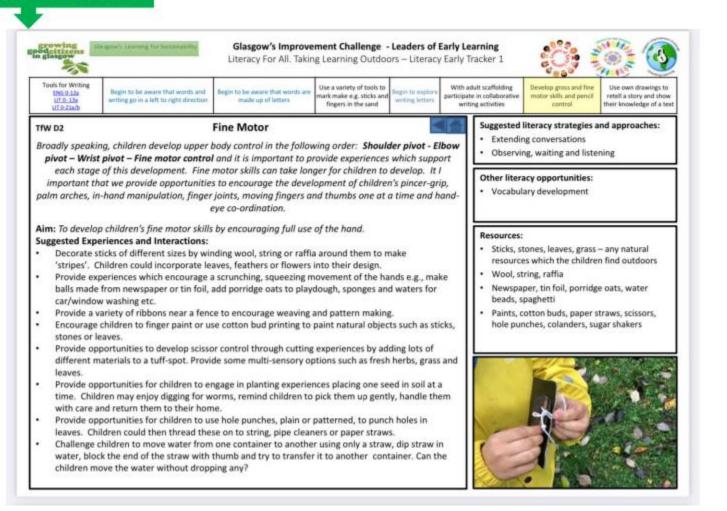












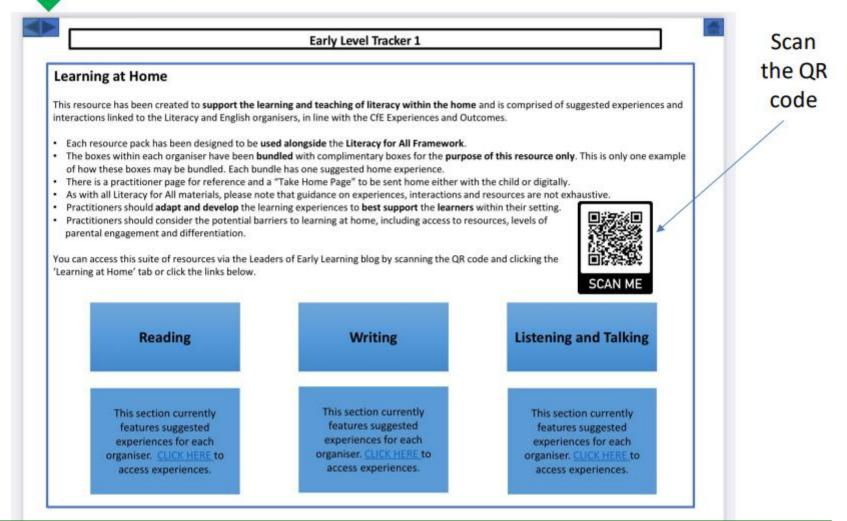








#### LfA Learning at Home



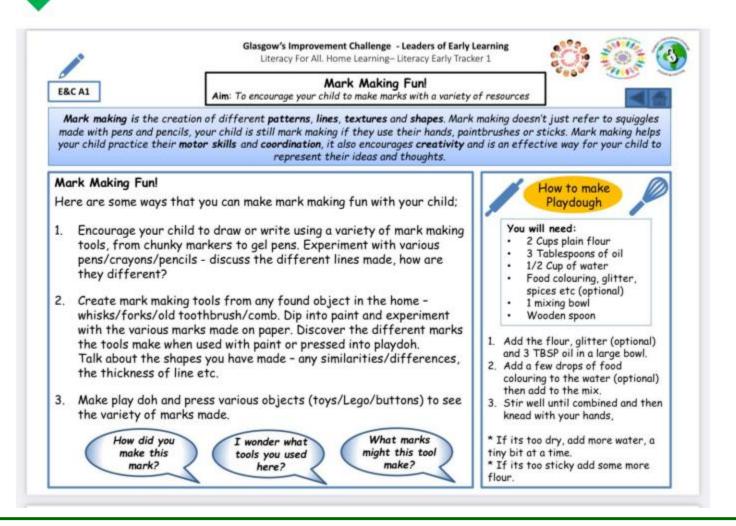








#### LfA Learning at Home



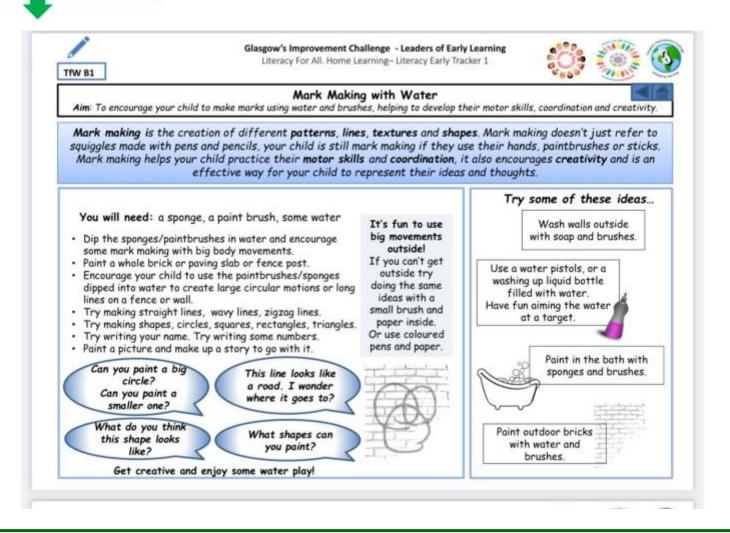








#### LfA Learning at Home

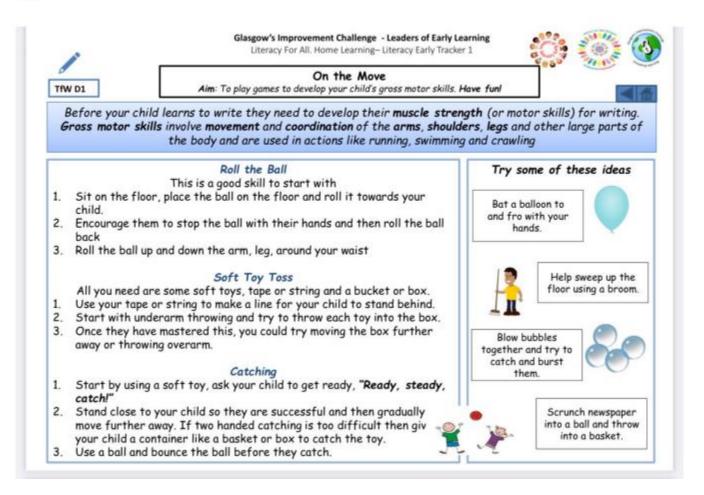














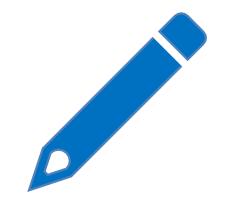






## Tasks

- Use the writing environment tool to audit your spaces for writing.
- Identify opportunities for early mark making in your establishment: Bring some examples of interesting mark making tools.









Join at menti.com use code 7472228

Mentimeter

### Instructions

#### Go to www.menti.com

Enter the code

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2023-2024 dates for your diary LfA year 2								
01/09/23	9:30am-12pm	Session 1: Developing Our Storytelling 1	Gemma					
	1pm-3pm	Leadership of Change 1	Ana					
15/09/23	9:30am-12pm	Session 2: Developing Our Storytelling 2	Gemma					
	1pm-3pm	Leadership of Change 2	Ana					
06/10/23	9:30am-12pm	Session 3: Fine and Gross motor development	Gemma					
	1pm-3pm	Leadership of Change 3 (FLO)	Laura (FLO)					
03/11/23	9:30am-12pm	Session 4: Early writing and mark making	Gemma					
	1pm-3pm	HGIOP – Baseline	Gemma & Ana					
17/11/23	9:30am-3pm	Session 5: Early Literacy through block play	Gemma					
26/04/24	9:30am-12pm	HGIOP – Final	Gemma & Ana					









### Contacts

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• **Twitter**: @GlasgowLEL











### Literacy for All In Our Playrooms





### **Fine and Gross Motor Development**

