



Therapy Programme

A parent's guide to choosing activities for improving

Mobility, Ability & Participation

(MAP)



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SECTION 1

INTRODUCTION TO PLAYPAK & THE PLAYPAK THERAPY PROGRAMME

IN THIS BOOKLET, WE PROVIDE YOU WITH HELP AND GUIDANCE FROM OUR QUALIFIED OCCUPATIONAL, PHYSICAL AND SPEECH AND LANGUAGE THERAPISTS TO SUPPORT YOU TO GET THE MOST OUT OF YOUR PLAYPAK.





Let's get ready!

With Playpak, you can begin to provide different opportunities for developing your child's mobility, ability and participation skills using our Playpak Therapy Programme.

Of course you can choose to simply let your child use Playpak for floor-sitting and floor-play; many families love to do this. However, by carefully choosing activities your child carries out in Playpak, you can work on developing your child's skills in many areas.



What is Playpak?

Playpak is a lightweight activity kit that contains different rolls, wedges and supports. These components enable your child to achieve different positions including sitting, lying and tummy time.

Playpak is comprised of seven items: a bag/mat, small horseshoe, large horseshoe, tummy/headrest, strap/belt, long roll and short roll. Playpak arrives in its bag with all parts included and you can configure the parts whatever way you like (this is discussed further within Section 2).



Playpak is based on the Squiggles Early Activity System, a Leckey product (www.leckey.com). Leckey is a company known worldwide for making postural equipment for children with special needs and is also Firefly's parent company. Firefly's focus, however, is special needs family participation.

The Squiggles Early Activity System is a popular product, particularly for use in therapy centres; however Firefly by Leckey wanted to make a portable, more affordable version. Our designers worked with clinicians to make an activity kit that would enable therapy at home and on-the-move!



Who can use Playpak?

Playpak is suitable for infants and young children with special needs from birth to approximately 48 months. There isn't any weight restriction for Playpak; however the maximum seat width of the large horseshoe support is 25cm/9.8in, so if your child exceeds this, they will be too big to sit with the help of the Playpak horseshoe supports.

Your child's abilities may still be developing, so they may only be able to manage a short time in Playpak before getting tired. That's ok – go at their pace. Duration of use of Playpak varies depending on your child's abilities, their mood and the time of day. It is important to alternate challenging positions with easier ones until they build and develop their abilities a little more. Your child may enjoy using Playpak frequently, in which case daily use may be appropriate. If their postural and sensory skills are still developing, you may find that you need to go more slowly. Be guided by your child. Avoid letting them become too fatigued as this may impact on their abilities in other daily activities.



Playpak can be used by children at any level of the Gross Motor Function Classification Scale (GMFCS). If your child has extremes of tone, they may find it harder to achieve and sustain some positions. You may wish to ask your therapist for advice or contact us using the details at the end of Section 2.







EXPERIENCE NEW POSITIONS
AND MOVEMENTS IS BENEFICIAL,
HOWEVER SOME UNSUPPORTED
POSTURES CAN LEAD TO
MOVEMENT DIFFICULTIES. THIS
MEANS THAT INTERVENTION AT
THIS STAGE IS VITAL, BEFORE
A MOVEMENT BECOMES
ESTABLISHED.

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What is the Playpak Therapy Programme?

The Playpak Therapy Programme provides a series of carefully selected positions and activities which can contribute to your child's development.

There are three key areas of the programme: Mobility (M), Ability (A) & Participation (P).

This is the MAP:

MOBILITY is your child's ability to access their world and gain as much independence as possible;

ABILITY refers to all aspects of your child's physical, cognitive and social development;

PARTICIPATION is about enabling your child to experience as many activities as possible.

This programme focuses on the positions your child can achieve in Playpak, how to set up the Playpak pieces to achieve these positions, and activities that your child can carry out in each position.

In the Playpak Therapy Programme, we focus on five positions:

- Back lying (supine)
- Tummy lying (prone)
- · Side lying
- Sitting
- · Four-point kneeling

This programme also includes a MAP Ability Assessment. The MAP Ability Assessment allows you to record your child's abilities and review them after a period of Playpak use. As Playpak enables children to achieve different positions and participate in activities that they would normally find difficult, otherwise, the Playpak Therapy Programme largely focuses on 'Ability'. However, the Playpak Therapy Programme will help to develop your child's skills in Mobility, Ability and Participation.

Children develop at different rates and the "typical" ages of achieving developmental milestones can vary greatly. However, children tend to follow a similar pattern of progress. Many factors can influence children's development, including their health, their physical abilities or their environment. For some children, maintaining one position in Playpak may be the best they can achieve at this point in time and that's perfectly fine.

Maintaining a position securely and comfortably allows children the opportunity to develop lots of skills. In this booklet, we focus on developing gross motor, fine motor, visual motor, sensory and communication skills (these therapy terms are explained on page 61). These skills cover areas of Mobility, Ability and Participation in each Playpak position.

You know your child better than anyone, and you will be able to work out which activities they can complete or work towards completing. Remember that all children are different and your child's abilities may not be the same as other children. You should choose an activity which you feel is achievable for your child.

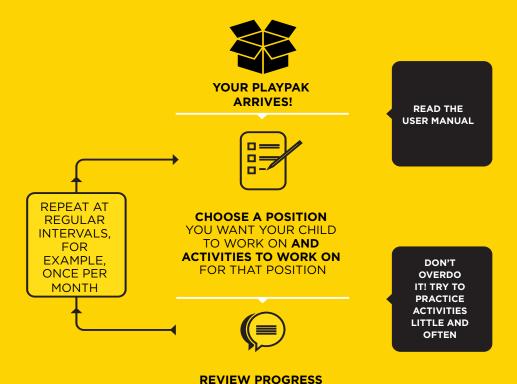
Grading activities

Grading refers to making a task easier or harder for your child in order to make any activity more straightforward or more challenging. This can be really useful when working towards achieving goals while using Playpak. Each position has suggestions of graded activities as a guide to help you get started (See Section 2), but you can create stages in between to suit your child's abilities. For example:

ACTIVITY	EASY	MEDIUM	HARD
CONSTRUCTION	Place large or medium-sized pieces of Lego or Duplo on the floor close to child and encourage child to pick them up	Pick up one piece and pass it to the other hand; Pick up Lego pieces and attach together using two hands	Build shapes and patterns with smaller pieces of Lego



Overview of the Playpak Therapy Programme



USING THE MAP ABILITY
ASSESSMENT

SECTION 2

THE PLAYPAK THERAPY PROGRAMME

Activites in Playpak

Once you receive your Playpak and have read the User Manual, it's time to choose a position for your child to work on. There are five different positions that can be achieved using Playpak:

- 1. Back lying (supine)
- 2. Tummy lying (prone)
- 3. Side lying
- 4. Sitting
- 5. Four-point kneeling

You can alternate between positions as much as you like, depending on your child's current skill level.

Once you have chosen a position for your Playpak session, it's time to decide what your child will do in this position! There are plenty of fun activities that your child can enjoy in Playpak. Not only are they fun, but they can also have therapeutic benefits including the development of gross motor skills, fine motor skills and communication skills.

This Playpak Therapy Programme will guide you through a selection of activities which your child can carry out in each Playpak position. It is important to remember the effort that it can take for your child to maintain their position in Playpak, regardless of what activity they are carrying out.

The position that you place your child in and the play or communication activity that you choose for your child in that position are equally important. If the activity is easy for your child, they can probably carry it out in a more difficult position; or vice versa if the activity is challenging, try it in a position that your child finds easier. For example, if your child finds it hard to sit up, most of their energy will be working towards sitting up – so choose a simple activity for them. Likewise if you are aiming to introduce new words or phrases to develop listening and understanding skills, then you will need to choose an easier position or provide more support. That way, your child is not over-loaded and is more likely to experience success.





HERE LOGAN IS IN A POSITION WHICH HE FINDS DIFFICULT; BEING ON HIS TUMMY.
WHILST IN A DIFFICULT POSITION LIKE THIS, WE FOCUS ON EASIER ACTIVITIES,
SUCH AS PLAYING WITH BEADS.

Back Lying (supine)

Why is back lying important?

This is the most fundamental of developmental positions. When your child lies on their back, their full body weight is symmetrically supported by the surface. This makes it a very secure position from which to work on the physical, cognitive, sensory, and communication skills that provide the building blocks to more complex skills.

Setting up Playpak for back lying position

Typically, children will lie on their backs on the Playpak mat and use the headrest to support their head. Alternatively, parents often use the short roll to provide head support.

The strap/belt can be used to secure your child's hips, as seen in the photograph. You can also support your child using the rolls at their sides.

You can use the rolls to support your child's feet and/or to stop them sliding down the mat. If your child has tight hamstrings, you can place a roll under their knees to make them more comfortable.



Activities in back lying position

On the next page you will find some activities to carry out with your child in the back lying position. In addition, a list of activities can be found in the Resource section (p.62-69). From here, you can choose activities that best suit your child and the developmental area you want to work on (e.g. gross motor skills, fine motor skills, and bilateral coordination). See page 12 for information on how to grade.



BY MAKING A "NEST" FOR BABY WE
ARE HELPING THEM COME TO A FLEXED
POSITION. THIS WILL HELP THEM TO USE
THEIR TUMMY MUSCLES AND KEEP THEIR
HEAD IN THE MIDDLE OF THE HORSESHOE.
THE SHOULDER GIRDLE IS BROUGHT
FORWARD MAKING IT EASIER FOR THE CHILE
TO USE THEIR ARMS BY RAISING THEM UP TO
THEIR HEAD. THE HIPS ARE SUPPORTED BY
THE HORSESHOE WHICH MAKES IT EASIER







Back Lying Position

	BACK LYING	G POSITION	
SKILL AREA	EASY	MEDIUM	HARD
GROSS MOTOR ARM & FEET ACTIVITY	Hold on to your child's legs and help them to "bicycle" their legs	Encourage your child to bring their hands and legs together in the midline by placing their favourite toy in front of them	Assist rolling to the left and then to the right
FINE & VISUAL MOTOR TRACKING OBJECTS	Place a brightly coloured object (such as a mobile or activity gym) about 30-40cm above your child's face	Move the object from left to right through a quarter circle, then back, going slowly enough so your child's eyes can follow it	Hold the object 40-50cm from your child's face and move it through a semi-circle to encourage head movements
REACHING FOR OBJECTS	Hold a toy in your child's midline vision and encourage them to reach out for it	Encourage your child to reach across their body with left hand to swipe at a toy on the right side, and vice versa. Place your hand behind their shoulder to assist if necessary	Remove the pelvic strap and move the toy a little further out of reach. Your child should need to shift their weight at their hips to reach the toy.



THIS HELPS TO STRENGTHEN TUMMY, LEGS AND FEET, AND THE RECIPROCAL MOVEMENT IS ONE WHICH IS NEEDED FOR LATER WEIGHT BEARING OR MOVEMENT.



THIS MIDLINE POSITION IS GOOD FOR
SYMMETRY, AND YOUR CHILD IS BEGINNING TO
LEARN TO USE BOTH SIDES OF THEIR BODY
TOGETHER.



SEE ACTIVITY SUGGESTIONS IN THE RESOURCE

SECTION TO CHOOSE OTHER ABILITY AND

PARTICIPATION ACTIVITIES FOR YOUR CHILD

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Communication

In the back lying position it is easiest for your child to focus his eyes on familiar faces held near to his own face. First, children prefer to look at eyes, before learning to hold their gaze for longer and becoming more interested in objects. As children become more aware of the people and objects around them, they will develop skills in paying attention, concentrating and turn-taking – all early stages of communication, language and speech. Back lying is an ideal position to play games with your child. In this position they can copy your sounds or listen to songs and rhymes.

AT THIS TIME, ONE OF THE MOST NTERESTING OBJECTS FOR A CHILD IS THEIR PARENT'S FACE!



Sensory skills

It is easier for your child to work on sensory skills, for example focusing on a dangling object, when they are lying on their back. As your child becomes aware of their hands and feet and takes them to their mouth, their eye-hand coordination and fine motor skills are developing. Even the sensations that your children receive through the back of their body will be helping to develop a sense of front and back. Likewise, the feedback received through the joints and muscles in their limbs (known as proprioception) gives important information about body position in relation to environment.



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Tummy Lying (Prone)

Why is tummy lying important?

Tummy lying is sometimes a difficult position for little ones as they have to struggle against gravity to lift their heads. It is however also important for developing and strengthening muscles. Research has shown that about one half of typically developing infants show some delayed development by six months of age if they are never placed on their tummies when awake². This makes it especially important to have some daily tummy time.

YOU CAN ENCOURAGE YOUR
CHILD'S TOLERANCE OF THIS
POSTURE BY LYING THEM ON YOUR
STOMACH OR LYING ON THE FLOOF
WITH AN OLDER CHILD.

TRANSFERRING WEIGHT
FROM FOREARMS TO
STRAIGHT ARMS ASSISTS
WITH CRAWLING AND
RELEASING ONE ARM TO
PLAY WITH OBJECTS. THIS
HELPS DEVELOP SKILLS
FOR HANDWRITING AND
USE OF CUTLERY IN



The extensor muscles (back muscles) of children with developmental delay tend to be weaker³; however lifting their head and shoulders up against gravity helps to strengthen these extensor muscles. This is also helpful for children with low tone muscles and is an important foundation for the development of sitting.

Hand development is also promoted in tummy lying (prone), as body weight is taken through the bones, joints and muscles of the hands. Once head control is developing, hand co-ordination and spatial awareness can also be worked on.

Foot development can also be encouraged in prone, with carefully placed rolls or toys - see the activity suggestions later on.



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Setting up your Playpak for tummy lying

The configuration(s) you choose to work on your child's tummy lying will depend on their level of head and trunk control, as well as upper limb strength. If your child is somewhat confident in these areas, you can use a roll or a horseshoe to support their trunk or arms. This will provide them with minimal support and allow full range of movement.



For children who aren't as strong in these areas, you can build the level of support using the horseshoes. The horseshoes prop the trunk and allow the child to focus on developing their head control. You can incorporate some of the other components to make tummy lying as comfortable as possible for your little one. As you can see in the picture on the right, the headrest and long roll are supporting the child's head and arms while she perches on the short roll. Pillows can also be wedged in between the horseshoes for further trunk support and you can add the strap/belt for extra security.



Activities for tummy lying

Many activities can be carried out in tummy lying. However, the activities your child will be able to complete may depend on their level of head and trunk control. Those with poor head and trunk control will find this position more difficult than those who have developed head and trunk control - and that's perfectly fine. Grade the activities for their ability (see p. 12 for Grading).

Because tummy lying is a challenging position, achieving this position is a skill in itself. As a result, the list of activities for tummy lying is small in comparison to other Playpak positions.

A list of activities can be found in the Resource section (p. 62-69). From here, you can pick and choose activities that best suit your child and the developmental area you want to work on (e.g. gross motor skills, fine motor skills, bilateral coordination).

On the following pages are some suggested, graded activities you can carry out with your child in the tummy lying position.

Tummy Lying Position

	TUMMY LYING	G POSITION	
ACTIVITY	EASY	MEDIUM	HARD
GROSS MOTOR HEAD LIFT	Hold child's favourite toy in front of them and encourage them to lift their head slightly	Move child's toy slowly from side to side and encourage them to turn their head to follow it	Encourage child to look for different toys placed around them and turn their head in different directions
WEIGHTBEARING THROUGH ARMS	Child places hands on floor and reaches for toys on floor	Hold child's favourite toy slightly above their head and encourage them to push up to look at toy	Place child's favourite toy on an elevated surface (e.g. small table, cushion) and encourage them to push up to see/retrieve the toy
FINE & VISUAL MOTOR BUILDING BLOCKS	Build blocks up for your child and encourage them to knock them down	Encourage your child to play with the blocks themselves	Encourage your child to build a tower using the blocks
IPAD/TABLET	Watch a cartoon on Ipad/Tablet while tummy lying	Clap/Dance etc. along to song playing on Ipad/ Tablet	Reach out to touch Ipad/ Tablet screen
SORTING TOYS	Pick up toys from floor in front	Pick up toys and put into box in front	Pick up toys from box and place into another box



TRY TO PERSEVERE WITH TUMMY TIME IF YOUR CHILD DOES NOT LIKE IT. SECONDS AT A TIME INITIALLY WILL EVENTUALLY BUILD INTO MINUTES.

TUMMY TIME CAN HELP WITH DEVELOPING HEAD CONTROL. IT WILL ALSO DEVELOP THE SKILLS ESSENTIAL TO PROGRESS TO THE CRAWLING POSITION BY TAKING WEIGHT THROUGH FIRST THE FOREARMS AND THEN STRAIGHT ARMS.

TUMMY-LYING IS A DIFFICULT POSITION BY ITSELF; FOCUS ON YOUR CHILD TOLERATING AND ENJOYING THIS POSITION AND KEEP ACTIVITIES SIMPLE AS THE POSITION IS QUITE DIFFICULT.

SEE ACTIVITY SUGGESTIONS IN THE RESOURCE SECTION TO CHOOSE OTHER ABILITY AND PARTICIPATION ACTIVITIES FOR YOUR CHILD.



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Communication

Tummy lying may make it more difficult for children to make sounds (vocalise), as their chest is compressed in this position. However, communication goals are a good way to provide the motivation they need to practice this important position.

Remember all activities incorporate communication and can be used to work on communication goals. Make sure that you are clear about what goal you are going to focus on to help your child develop their skills. Is it listening, attention or concentration? Perhaps understanding new words or practising making and copying sounds (vocalising)? If your child attends Speech and Language Therapy, work with your Speech and Language therapist to help the development of your child's communication skills.



IF YOU HAVE POSITIONED PLAYPAK
TO ACHIEVE DIFFERENT GOALS OR
TO FACILITATE PLAY/THERAPY IN
WAYS NOT MENTIONED, WE WOULD
LOVE TO HEAR FROM YOU. YOU CAN
FIND OUR CONTACT DETAILS IN THE
'CONTACT US' SECTION OF THIS
BOOK! FT

Sensory skills

When tummy lying, your child can gain a sense of security. This position helps to develop visual focusing and tracking, as well as a sense of body awareness (proprioception). If your child has reasonable head control, they will be able to play in this position for some time. This will continue to strengthen their muscles and enable them to explore their environment and look around.



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Side Lying

Why is side lying important?

Side lying is not, strictly speaking, a separate developmental stage of its own. In typical child development, children pass through side lying when moving from back lying to tummy lying and vice versa.

However, for some children with developmental delay, back lying or tummy lying present too many challenges. It can be difficult for children who have uneven muscle tone (one side of their body may be different to the other) or with strong reflexes, to use both sides of their body together and bring their hands together in the middle. Side lying can reduce strong extension and, with the help of gravity, can help a child to bring their arms together. Bringing arms together into the midline of the body is important because it encourages bilateral integration - using both hands together. This improves co-ordination and is a building block of fine motor skills.

Similarly, children with hemiplegia (a condition where one side of the body is weaker than the other) have difficulty using their affected side when completing activities. Placing a child on their affected side can help to control unwanted arm movements as well as improving the use of the affected side.

Side lying frees children's hands and, as a result, can promote development of fine motor skills, coordination and grasp. It gives children a sense of body awareness and opportunities for sensory play.

It is important for children to switch the side they lie on in order to maintain symmetry. You can use side lying to work on your child's rolling abilities. Some children with developmental delay "log roll" – moving their whole body as one piece. The aim is to develop "segmental rolling" – where their head turns first, followed by the shoulders, then trunk, hips, legs and feet.



Setting up your Playpak for side lying

Side lying can be accommodated in many ways, including:

- Positioning your child on their side in between the two rolls
- Using the rolls in a "chair shape", with the large roll behind their head and back, and the small roll supporting their bottom and keeping their legs bent
- As shown in the picture using the strap/belt and rolls. Extra rolls can also be useful in positioning your child in side lying



Activities for side lying

Remember to go at your child's pace and grade the activities for their ability (see p. 12 for Grading). A list of activities can be found in the Resource section (p. 62-69). From here, you can pick and choose activities that best suit your child and the developmental area you want to work on (e.g. gross motor skills, fine motor skills, bilateral coordination).

Because side lying is a challenging position, achieving this position is a skill in itself. As a result, the list of activities for side lying is small in comparison to other Playpak positions. On the next page there are some activities you can carry out with your child in the side lying position:

WITH HIGH OR LOW TONE TO FIND MAINTAINING A SIDE LYING POSITION DIFFICULT. EXTRA SUPPORT FROM THE ROLLS WITHIN PLAYPAK CAN BE USED TO PROVIDE ADDITIONAL POSTURAL SUPPORT USING THE GRADING APPROACH.

Watch the Things
you Need to Know
you PlayPak - Part 1
About PlayPak - Frong
webinar Starting strong
in 3 essential early
positions at
positions at
bit.ly/fireflyeducation



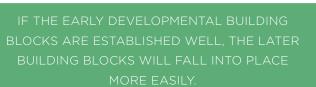
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Side Lying Position

	SIDE LYING	POSITION		
ACTIVITY	EASY	MEDIUM	HARD	
GROSS MOTOR BALL PLAY	Roll or throw a small ball to family member	Roll or throw ball at a target, into a box, etc	Roll or throw ball to either rolling on sides to do so	
FINE & VISUAL MOTOR MUSICAL TOYS	Hit drum, pot, etc. using hands to make a noise	Hit drum, pot, etc. using items (e.g. drumstick, spoon) to make a noise	Play with an interactive sound toy	
REACH	Hold child's favourite toy in front of them and encourage them to reach for it	Place child's toys slightly out of reach and encourage them to reach for different toys	Use toys which mean the child will have to repeat reaching movement e.g. sorting shape toys, music or sound toys	
POPPING BUBBLES	Blow large bubbles close to child and encourage them to reach out and pop	Blow large bubbles further away from child	Blow smaller bubbles at a distance which they can reach with some stretching out	



SIDE LYING IS A DIFFICULT POSITION
BY ITSELF; FOCUS ON YOUR CHILD
MAINTAINING AND ENJOYING THIS
POSITION. KEEP ACTIVITIES SIMPLE. IT
TEACHES CHILDREN TO USE THEIR HANDS
TOGETHER IN MIDLINE OF THEIR BODY, AND
THEREFORE HELPS DEVELOP THE MUSCLES
REQUIRED TO ROLL.



SEE ACTIVITY SUGGESTIONS IN THE
RESOURCE SECTION TO CHOOSE OTHER
ABILITY AND PARTICIPATION ACTIVITIES FOR
YOUR CHILD.



Communication

Side lying may make it more difficult for your child to make sounds (vocalise), as their chest is compressed in this position. However, communication goals are a good way to provide the motivation they need to practice this important therapeutic position.

Sensory skills

Because asymmetrical muscle tone and/or reflexes can affect your child's symmetry, side lying reduces the effects of these, meaning that your child is able to experience more usual movement sensations. They can also use their eyes more efficiently to follow objects when their head position is more central in relation to the rest of their body.



TO ACHIEVE DIFFERENT GOALS OR TO FACILITATE PLAY/THERAPY IN WAYS NOT MENTIONED, WE WOULD LOVE TO HEAR FROM YOU. YOU CAN FIND OUR CONTACT DETAILS IN THE 'CONTACT US' SECTION OF THIS BOOKLET.

Floor Sitting

Sitting is considered a vital part of the developmental sequence because of the other skills which are based upon its foundation. Sitting allows hands and arms to be free while the trunk and pelvis are stabilised. In turn, this allows handling of objects, exploration, increased learning opportunities and interaction with the environment.

Configuring Playpak for floor sitting

The horseshoe supports included in Playpak can be configured to provide this stability. Rolls can be placed in between the child's legs to give a wider base of support and prevent scissoring (abduction). Likewise, a roll can be placed at the child's heels to provide resistance against sliding forwards.



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For children with poor trunk control, you can re-position the horseshoe supports as shown opposite. The short roll, wedge or headrest/tummy rest can provide additional support if required.



Alternatively, some families use tables or trays to provide anterior support. The little girl pictured on the right is using the strap/belt, with the long roll placed between her and the table. This provides extra postural support as well as encouraging her to reach to the table.

Activities in floor sitting position

Remember to grade the activities to suit your child's ability. See page 12 for information on how to grade. In addition to the activities below, a list of activities can be found in the Resource section (p. 62-69). From here, you can choose activities that best suit your child and the developmental area you want to work on (e.g. gross motor skills, fine motor skills, and bilateral coordination). There are some activities you can carry out with your child in the floor sitting position on pages 42 and 43.



Sitting Position

	SITTING PO	SITION			
ACTIVITY	EASY MEDIUM HARD				
GROSS MOTOR POPPING BUBBLES	Blow large bubbles close to child and encourage them to reach out and pop	Blow large bubbles further away from child. Encourage popping with two hands together	Blow smaller bubbles at a distance which they can reach with some stretching out		
BALL PLAY	Short distance throwing and catching with a large inflatable beach ball or balloon	Longer distance throwing and catching with a slightly smaller or heavier ball	Try more complex games with a smaller or heavier ball such as saying the alphabet while throwing and catching		
SAND PLAY	Find objects buried in sand	Fill buckets and pour sand	Build sand castles and encourage digging in sand		
SINCE FINE MO	TOR AND VISUAL M	OTOP SKILLS APE	SO CLOSELY		

SINCE FINE MOTOR AND VISUAL MOTOR SKILLS ARE SO CLOSELY RELATED, MANY ACTIVITIES WORK ON BOTH THESE AREAS.

FINE & VISUAL MOTOR CONSTRUCTION	Place large- medium sized pieces of Lego or Duplo on table top and encourage child to pick them up	Pick up Lego and attach together	Build shapes and patterns with Lego or Duplo
BUILDING BLOCKS	Build a tower with two 2" building blocks	Aim to make a higher tower with smaller blocks	Copy a pattern of building blocks

TEARING & STICKING	Tear some tinfoil, tissue paper or newspaper	Tear paper and roll into small balls to fill shapes	Tear around shapes (circle, square, triangle)
THREADING ACTIVITIES	Place straws upright in play- doh and thread through large bead holes or rigatoni pasta	Thread beads of different shapes and colours through a thinner piece of lace/string/ thread/ribbon	Copy patterns whilst threading
JIGSAW	Primary colours 4-6 pieces Large pieces	Introduce more colours 6-8 pieces Smaller pieces	Patterned pictures 8-12 pieces Smaller pieces again
SORTING SHAPES	Sort simple shapes with primary colours	Introduce more complex shapes and colours	Try sorting smaller shapes (e.g. coins into a money box)

INTRODUCE LOTS OF DIFFERENT COLOURS
AND TEXTURES TO STIMULATE THE SENSES!

SEE ACTIVITY SUGGESTIONS IN THE RESOURCE SECTION TO CHOOSE OTHER ABILITY AND PARTICIPATION ACTIVITIES FOR YOUR CHILD.



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Communication

The social posture of sitting is an excellent position for focusing on introducing new words and phrases, especially describing words and action words. If your child's floor sitting skills are still developing, remember that you may have to provide more support if the goal is learning new words.

Remember all activities incorporate communication. Make sure that you are clear about what goal you are going to focus on to help your child develop his skills. Is it listening and attention? Or understanding new words?



TO ACHIEVE DIFFERENT GOALS OR TO FACILITATE PLAY/THERAPY IN WAYS NOT MENTIONED, WE WOULD LOVE TO HEAR FROM YOU. YOU CAN FIND OUR CONTACT DETAILS IN THE 'CONTACT US' (P.55)

SECTION OF THIS BOOKLET.

Sensory skills

With head control developing well and when securely supported in a sitting posture, your child's hands are free to explore a much greater range of textures, shapes, and sizes. Use a variety of these (always with supervision) to give your child a range of sensory experiences. Your child will learn about up and down movements, as well as rough and smooth, light and heavy, big and small objects.

SENSORY MOBILES WITH DANGLING TOYS SUCH AS RATTLES, CHEWS, CRACKLY PAPER AND MIRRORS WILL DEVELOP SENSORY SKILLS WHILST ENCOURAGING THE CHILD TO USE GROSS MOTOR SKILLS. THIS COULD BE ATTACHED TO PLAYPAK TO CREATE A TRANSPORTABLE SENSORY AREA.





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Four-Point Kneeling

Four-point kneeling enables children to move into and out of other positions: they can begin to move onto hands and knees from tummy-lying, and then into a sitting position. Depending on each child's capabilities, some will learn to use hands and knees as a building block for movement – they may go on to be able to tall kneel (hands off the floor), or even begin to crawl.

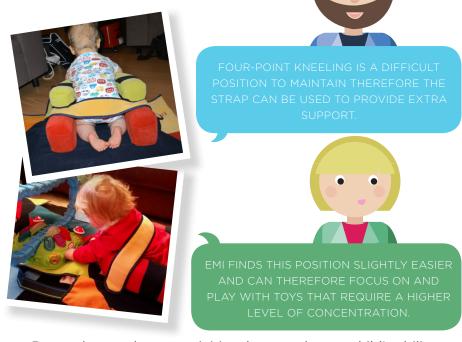
Configuring Playpak for four-point kneeling

From a tummy lying (prone) position, help your child to bend their hips and knees until their legs are tucked underneath them. Depending on your child's level of ability, you may need to place the head/tummy support or a roll under their tummy, and help them push up on their arms into a kneeling position. Your child's level of ability in four-point kneeling will determine the type of activity they will be able to manage.



Activities for four-point kneeling

The position that you place your child in and the activity that you choose for your child in that position are equally important. A four-point kneeling position could be challenging for your child and this may be enough to work on initially.



Remember to choose activities that match your child's ability. See page 12 for information on how to grade. In addition to the activities on the next page, a list of activities can be found in the Resource section (p. 62-69). From here, you can choose activities that best suit your child and the developmental area you want to work on (e.g. gross motor skills, fine motor skills, and bilateral coordination).

Four-Point Kneeling Position

FOUR-POINT KNEELING POSITION						
SKILL AREA	EASY	MEDIUM	HARD			
GROSS MOTOR FOCUS ON HOLDING POSITION	Encourage your child to sit in a "bunny" position	Up on all fours and hold head up for a short period of time	Up on all fours and hold head up for a longer period of time			
FINE & VISUAL MOTOR TRACKING OBJECTS	Sort simple shapes with primary colours using left or right arm	Introduce more complex shapes and colours. Start on the same side and cross midline to set shape down	Try sorting smaller shapes (e.g. coins into a money box). Start on opposite side and cross midline			



SEE ACTIVITY SUGGESTIONS
IN THE RESOURCE SECTION TO
CHOOSE OTHER ABILITY AND
PARTICIPATION ACTIVITIES FOR
YOUR CHILD.

REMEMBER TO ADD SENSORY COMPONENTS
BY INTRODUCING VARIOUS TEXTURES, NOISES
AND SURFACES.





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Communication

Hands and knees may be a difficult new position for your child, but communication goals are a good way to provide the motivation your child needs to practice this important developmental position.

Sensory skills

The palms of the hands are naturally sensitive, but some children can be very sensitive and don't like to touch things. While it is normal to avoid touching things that don't feel nice to us, children who are very sensitive to touch limit their opportunities for exploring and learning. Weight bearing through extended arms and open palms exposes your child to numerous sensations and can help to improve tolerance to touch. Therapists call this "sensory integration" – speak to your occupational therapist for further advice if you have any queries or concerns about your child's sensory tolerance.







How to review your progress

It's useful to try to review your child's progress because it:

- Helps you to understand any effects that Playpak may have on your child's development;
- Keeps you focused on encouraging your child to achieve the next stage;
- Helps you look back and remember how far your child has come, especially if you take photographs and/or videos as you go along.



How to review your progress using the MAP Mobility Assessment

As Playpak concentrates primarily on your child's ability, you can use the MAP Ability Assessment (p. 70) to review your child's progress. After about a month of Playpak use, check the MAP Ability Assessment and see how your child is doing within each category. Simply choose whether you feel your child's skills in the six ability areas (hand function, floor play, communication, attention, exploration and fun) are (a) worse than before you started using Playpak; (b) the same as before; or (c) better than before. Make a note of any specific changes you have noticed and try to describe what is different. If you feel your child hasn't made any progress, don't worry, just keep going and review again in another month or whenever you feel your child has made progress.

Sharing your progress with us at Firefly

We'd love to hear how you and your child are getting on with your Playpak Therapy Programme. If you have set Playpak up differently or are using it for different positions than mentioned in the programme, then we would love to hear from you. Going by the stories we have heard from families through Facebook and Twitter, we believe that Playpak can benefit children in a number of ways. It can be difficult to show this because families share their stories in so many different ways.

The Playpak Therapy Programme provides families, not only with a therapy tool, but a system for recording progress.

So, if you'd like to be part of this bigger picture, please email your reviews to playpak.programme@fireflyfriends.com

Top Tips

- Choose a time when your child is well rested and ready for play for your Playpak session. Try to wait at least 30 minutes after eating before using Playpak and avoid using it before bed.
- When trying new positions, use Playpak for a short period of time initially, (around 5 minutes). Once your child becomes comfortable with the position you are using, increase their time in Playpak. You can then try another position.
- You may need to adapt components to find the best arrangement for your child while they're in Playpak.

 Have a second person with you when using Playpak at the beginning until you are confident in how to set it up to give your child the level of support they need.
- Try to make the experience fun for everyone involved include brothers, sisters, friends and use toys, music or everyday tasks (e.g. eating a snack).
- Keep an eye on your child's confidence before and after using Playpak and note how much your child is enjoying the Playpak session.
- Note how much your child is motivated to use Playpak before using it.
- Take photographs and videos as you go along, remembering to note the date they form a really helpful part of your review.

Contact Us

If you have any questions or would like to provide feedback, you can contact us at:

Phone: +44 (0) 28 92 678879

Email: playpak.programme@fireflyfriends.com

Address: Firefly by Leckey,

19C Ballinderry Road,

Lisburn,

Northern Ireland,

BT28 2SA



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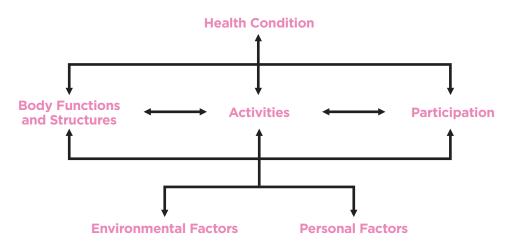
SECTION 3

RESOURCES

ICF-CY and MAP Explained

The International Classification of Functioning, Disability and Health for Children and Youth (ICF-CY) is an internationally recognised framework which is designed "to record the characteristics of the developing child and the influence of its surrounding environment." ¹

This means that health and function are emphasised, and disability or difficulties with function are viewed simply as part of the overall health spectrum. The focus is balanced between what children and young people are able to do, as well what they have difficulty with. The overall model is below:



International Classification of Functioning, Disability and Health Framework for Children and Youth (WHO, 2007).

The **health condition** is generally considered the child's diagnosis – this could equally be 'asthma' or 'cerebral palsy'. **Body structures and functions** relate to the health condition and describe what is wrong with the body. This may be wheezing (for asthma), or high muscle tone (for cerebral palsy).

The body functions and structures affect the child's **activity**. Does the child become short of breath? Can the child rise to stand and walk? What is the child capable of doing?

Activity impacts on the child's level of **participation** in everyday activities such as playing, eating, dressing, cycling, going to the shops, involvement in sports etc.

Alongside these factors is the acknowledgement that the child's **environment** and individual **personal factors** influence their development. Parents, siblings, motivation, cognitive ability, housing, infrastructure of local health and education services, and access to sports and leisure facilities are a few of the environmental and personal factors that may impact on a child's development in each area.



Research suggests that therapy which looks at multiple areas appears to be more beneficial than a single treatment approach. Therefore, interventions should target body functions and structures, activities and participation, as well as environmental and personal factors.⁴

Firefly

At Firefly by Leckey, our vision is to create a world where every child with special needs can enjoy a childhood filled with play, participation and possibilities.

Working with our community of parents and therapists we will campaign for change and co-create unique, innovative, life changing products.

We recognise that we are not able to change a child's health condition or environment, but by using Firefly products, we believe we can have an influence on their body structures, activities and participation. So, we have developed our own MAP framework to reflect where we can help.

The MAP

The MAP is Firefly and Leckey's own framework for understanding how products can help children with disabilities. With the child, their family and the products at the centre of the model, their developmental progress is influenced by mobility, ability and participation.

For example, by using a product to stretch muscles (body functions and structures in the ICF-CY), we may actually improve **mobility** which we define as a child being able to access their world and gain as much independence as possible. And of course, products which move will encourage mobility too!

A product might encourage a child to develop hand function, concentration or communication (activities in the ICF-CY). We have termed this **ability**, which we define as improving physical, cognitive and social development.

Similarly to the ICF-CY, we have defined **participation** as being able to experience as many activities as possible.

The MAP Model is below:



MAP (©Leckey 2015)

Therapy terms explained

GROSS MOTOR SKILLS

Large movements usually related to developmental milestones e.g. rolling, sitting, crawling, cruising and walking.

REACH

Part of gross motor skills, stretching arms to reach across the body, upwards or downwards.

FINE MOTOR SKILLS

Small movements usually related to hand function e.g. pincer grasp, ability to hold a crayon, manage cutlery, or buttons etc.

BILATERAL HAND FUNCTION

Part of fine motor skills using both hands together to hold, throw, catch, build, open etc.

VISUAL-MOTOR SKILLS

The ability to co-ordinate eyes and movements. Visual-motor skills affect the ability to kick a ball (eye-foot co-ordination), pick up a block (eye-hand co-ordination), or drink from a cup (hand-mouth co-ordination).

PROPRIOCEPTION

Body awareness and sense of your body within its surrounding space.

CONFIDENCE

Self-assured and willing to try new things.

INITIATION

The ability to start a movement and/or the direction of movement.

ENGAGEMENT

Obvious enjoyment from taking part in an activity.

MOTIVATION

Eagerness to take part in an activity and responds positively. May become upset when it's time to finish.

COMMUNICATION

The ability to listen and respond through facial expression, gestures, sounds or words.

TRACKING (VISION)

The ability to follow a stimulus using the eyes, with or without moving the head.

EVERYDAY ACTIVITIES

Activities that people do on a day-to-day basis e.g. walking, brushing teeth, setting the table.

SENSORY SKILLS

The ability to process information (e.g. light/dark, hot/cold, rough/smooth, noisy/quiet) using the senses to understand the world and carry out everyday activites more easily.

Ability Activity Suggestions

NOTE: MANY ACTIVITIES CAN ADDRESS ALMOST ALL THE ABILITY AREAS WITH SOME THOUGHT. THE DOTS () LISTED CAPTURE THE MAIN BENEFITS OF EACH ACTIVITY, BUT THERE ARE MANY OVERLAPS. FOR EXAMPLE, TALKING YOUR CHILD THROUGH YOUR CHOSEN ACTIVITY INCLUDES COMMUNICATION IN EVERY CASE.

ACTIVITY SUGGESTIONS	GROSS MOTOR SKILLS	FINE MOTOR SKILLS	VISUAL MOTOR SKILLS	COMMUNICATION/ SOCIAL SKILLS	SENSORY SKILLS
BALL PLAY				•	
BUILD BLOCKS					
CLAPPING HANDS TO SONG/CLAPPING GAME					
CIRCLE TIME					
CUTTING AND STICKING (ASSIST WHEN REQUIRED)		•	•		
DRAW AT FLOOR LEVEL					
DRESSING- ZIPS AND BUTTONS					
FOLLOW TOYS WITH EYES					
FOLLOW TOYS WITH HEAD					
JIGSAWS					
MATCHING OR STRATEGY GAMES E.G. CONNECT 4 AND SNAP		•	•		
PAINT WITH Q TIPS, SPONGES, FINGERS OR POMPOMS		•	•		•
PASS OBJECT FROM ONE HAND TO ANOTHER					
PEEL SOME FRUIT					•
PICKING UP SMALL OBJECTS FROM THE TABLE E.G. LEGO PIECES, BEADS, COINS ETC.			•		
PLAY GAMES WITH FINE MOTOR SKILLS E.G. BATTLESHIPS OR OPERATION		•	•		
PLAY-DOH (PLAY WITH IT, ROLL IT OUT, PUSH SMALL OBJECTS INTO IT OR CUT)					
POINT AND NAME OBJECTS			•		

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Ability Activity Suggestions continued

NOTE: MANY ACTIVITIES CAN ADDRESS ALMOST ALL THE ABILITY AREAS WITH SOME THOUGHT. THE DOTS () LISTED CAPTURE THE MAIN BENEFITS OF EACH ACTIVITY, BUT THERE ARE MANY OVERLAPS. FOR EXAMPLE, TALKING YOUR CHILD THROUGH YOUR CHOSEN ACTIVITY INCLUDES COMMUNICATION IN EVERY CASE.

ACTIVITY SUGGESTIONS	GROSS MOTOR SKILLS	FINE MOTOR SKILLS	VISUAL MOTOR SKILLS	COMMUNICATION/ SOCIAL SKILLS	SENSORY SKILLS
POPPING BUBBLES			•		•
POPPING BUBBLE WRAP					•
POSTING MONEY IN MONEY BOX/POSTING SHAPE GAMES		•	•		
SAND PLAY					
SKITTLES/BOWLING					
SORTING TOYS BY COLOUR					
SORTING TOYS BY SIZE					
SQUEEZING BOTTLES					
TEARING PAPER (GRADE THE LEVEL OF DIFFICULTY BY CHANGING TEXTURE OF MATERIAL, E.G. CARDBOARD)					•
THREADING ACTIVITIES					
TOUCHING OBJECTS OF DIFFERENT TEXTURES					
TRANSFER MARBLES OR WATER BEADS BETWEEN BOWLS					•

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Ability Activity Suggestions - Positions

NOTE: MANY ACTIVITIES CAN ADDRESS ALMOST ALL THE ABILITY AREAS WITH SOME THOUGHT. THE DOTS () LISTED CAPTURE THE MAIN BENEFITS OF EACH ACTIVITY, BUT THERE ARE MANY OVERLAPS. FOR EXAMPLE, TALKING YOUR CHILD THROUGH YOUR CHOSEN ACTIVITY INCLUDES COMMUNICATION IN EVERY CASE.

ACTIVITY SUGGESTIONS	TUMMY LYING	BACK LYING	SIDE LYING	SITTING	FOUR-POINT KNEELING
BALL PLAY	•	•	•	•	•
BUILD BLOCKS			•	•	
CIRCLE TIME					
CLAPPING HANDS TO SONG/CLAPPING GAME					
CUTTING AND STICKING (ASSIST WHEN REQUIRED)	•			•	
DRAW AT FLOOR LEVEL					
DRESSING-ZIPS AND BUTTONS				•	
FOLLOW TOYS WITH EYES					
FOLLOW TOYS WITH HEAD	•		•		•
JIGSAWS					
MATCHING OR STRATEGY GAMES E.G. CONNECT 4 AND SNAP	•		•	•	•
PAINT WITH Q TIPS, SPONGES, FINGERS OR POMPOMS		•	•	•	
PASS OBJECT FROM ONE HAND TO ANOTHER			•	•	
PEEL SOME FRUIT					
PICKING UP SMALL OBJECTS FROM A LOW TABLE E.G. LEGO PIECES, BEADS, COINS ETC.			•	•	
PLAY-DOH (PLAY WITH IT, ROLL IT OUT, PUSH SMALL OBJECTS INTO IT OR CUT IT)				•	
PLAY GAMES WITH FINE MOTOR SKILLS E.G. BATTLESHIPS OR OPERATION	•	•	•	•	•
POINT AND NAME OBJECTS					

Ability Activity Suggestions - Positions

NOTE: MANY ACTIVITIES CAN ADDRESS ALMOST ALL THE ABILITY AREAS WITH SOME THOUGHT. THE DOTS () LISTED CAPTURE THE MAIN BENEFITS OF EACH ACTIVITY, BUT THERE ARE MANY OVERLAPS. FOR EXAMPLE, TALKING YOUR CHILD THROUGH YOUR CHOSEN ACTIVITY INCLUDES COMMUNICATION IN EVERY CASE.

ACTIVITY SUGGESTIONS	TUMMY LYING	BACK LYING	SIDE LYING	SITTING	FOUR-POINT KNEELING
POPPING BUBBLES	•		•	•	•
POPPING BUBBLE WRAP			•	•	
POSTING MONEY IN MONEY BOX/POSTING SHAPE GAMES			•	•	•
SAND TRAY PLAY (PLACED ON A LOW TABLE OR TO ONE SIDE)			•		•
SKITTLES/BOWLING			•		
SORTING TOYS BY COLOUR					
SORTING TOYS BY SIZE					
SQUEEZING BOTTLES			•		
TEARING PAPER (GRADE THE LEVEL OF DIFFICULTY BY CHANGING TEXTURE OF MATERIAL, E.G. CARDBOARD)	•		•	•	•
THREADING ACTIVITIES			•	•	
TOUCHING OBJECTS OF DIFFERENT TEXTURES			•		
TRANSFER MARBLES OR WATER BEADS BETWEEN BOWLS				•	

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MAP Ability Assessment

We would love to hear about your progress - send your reviews, photos and videos to:
playpak.programme
@fireflyfriends.com*

*see page 71 for specific guidance

Your child's name:	
Date of birth:	
Diagnosis:	

Date of assessment:				
Ability Area	Worse than before	Same as before	Better than before	Your Comments (describe any differences you have noticed)
Gross motor skills				
Brings two hands together to the middle of the body, lifts arms above head, reaches, throws, catches or claps.				
Fine motor skills				
Uses both hands together, uses different grasps (whole hand, index finger and thumb, index, middle finger and thumb). Holds small objects in hands, or passes objects from one hand to another.				
Visual motor skills				
Picks up objects and manipulates them with increasing accuracy (jigsaws, shape sorters etc.). Brings spoon or cup to mouth.				
Sensory skills				
Level of interest in people, surroundings, messy play or activities with light, sound or touch.				
Social/communication skills				
Recognising or interacting with familiar people. Can make preferences known. Level of enjoyment of others' company, engagement in activities, smiling.				

Please share your progress

We love seeing and hearing about your progress using Playpak. It really helps us advise and guide other parents and therapists within the community and helps them decide if Playpak is suitable for them and their child or client.

It would be great if you could send:

Photos of three successive reviews using the Ability Assessments Sheets (covering a minimum period of 2 months)
Photos or videos demonstrating the progress achieved at each review
A photo or scan of one completed Ability Assessment

You can send these to playpak.programme@fireflyfriends.com

 * We love reviewing your photos and video footage. If possible, please send the highest resolution photos and videos you can. This really helps everyone. Thanks!

Photos and videos demonstrating each exercise you worked on



References

- 1. World Health Organisation (2007). International Classification of Functioning, Disability and Health: Children and Youth Version. Geneva: WHO.
- Majnemer A, Barr R,G (2005) Influence of supine sleep positioning on early motor milestone acquisition, Developmental Medicine and Child Neurology, 47, 370-76.
- Sieglinde M (2006) Teaching Motor Skills for Children with Cerebral Palsy and Similar Movement Disorders, Woodbine House Inc, United States of America.
- 4. Chiarello LA, Kolobe THA (2006). Early Intervention Services. In: Campbell S, Vander Linden DW, Palisano RJ (Eds) (2006). Physical Therapy for Children, 3rd Edition. Saunders Elsevier.

Firefly extends our gratitude to Nick Mant, Physiotherapist and founder of Flying Start Children's Therapy, Yorkshire, UK for his professional contribution to the physiotherapy components of this programme. Nick has written a three-part early intervention blog series for Firefly, and hosted a series of webinars on the same subject.

You can read the blogs at community.fireflyfriends.com (search 'Playpak') and watch the webinars at **bit.ly/fireflyeducation**

Nick's website is www.flyingstarttherapy.co.uk

Firefly also extends our gratitude to Dr Hazel Roddam, Speech and Language Therapist and Principal Lecturer in the Allied Health Professions Research Unit at the University of Central Lancashire, for her professional contribution to the speech, language and communication components of this programme.



My Playpak Notes

playpak

If you have any questions or would like to provide feedback, you can contact us at:

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