

Jockey Club Project
'CoolPlay'
賽馬會「智·幼·趣」計劃
六號探索盒子：力與運動 - 家長備忘



意見收集
Feedback
Collection

親愛的家長：

我們很高興為您送上本學年第三個「智·幼·趣」探索盒子，讓家庭樂趣和學習齊齊起步！

本項目由香港賽馬會慈善信託基金慷慨資助，並由耀中幼教學院與香港基督教服務處攜手合作，為幼兒家庭精心設計一系列探索盒子。我們深信，孩子的學習不應只限於課室，在家中、學校及社區中，同樣可以透過探索活動啟發思考、培養興趣，激發他們的無限潛能。

盒子裏有什麼？

盒子以「力與運動」的大概念為主題，重點探索「旋轉」。當中包含三種類型的探索套裝：

- 小小發現家 (The Starter Kit)：建議K1幼兒使用，著重幫助孩子學習使用簡單工具。
- 小小探索家 (The Explorer Kit)：建議K2幼兒使用，著重感官遊戲和鬆散材料的探索。
- 小小冒險家 (The Adventurer Kit)：建議K3幼兒使用，著重設計思維和解難能力的培養。

當然，您可以根據孩子的興趣和能力自由選擇適合的活動。

通過探索，您的孩子將會了解到什麼？

- 動手製作翅果的模型，感受植物如何利用不同的形態和旋轉方式來幫助種子傳播與生存
- 在旋轉畫機上作畫，觀察產生的旋轉對稱圖案
- 製作紙陀螺，了解陀螺的基本結構，探索旋轉與平衡的科學原理

這些親子活動能幫助孩子認識「旋轉」這一概念，以及它在日常生活中的各種運用。我們亦鼓勵家長與孩子一起觀察和留意身邊的「旋轉」現象，例如：氹氹轉、風扇，以及自然界中會旋轉的種子等，從中探索力與運動在生活中的實際存在。

親子同樂：我們極力鼓勵您與孩子一同進行這些親子活動。您的參與一定會讓孩子變得更好奇，更渴望學習新事物。

安全第一：

- 本探索盒子建議3歲或以上兒童使用。如家中有3歲以下的弟妹，請將材料放在他們接觸不到的地方。
- 所有活動均須在成人陪同下進行。
- 為避免顏料染污旋轉畫機或衣物，使用後請盡快以清潔劑清洗相關用品。
- 請留意盒子中的小物件，並時刻提醒孩子不要將任何材料放入口中。亦請家長仔細閱讀原材料清單，如孩子對某些材料過敏，請避免使用相關材料，或選擇合適的替代品。

如有任何問題，隨時聯絡我們：☎ 6594 2781 / ✉ coolplay@vccece.edu.hk。

讓探索開始吧！

賽馬會「智·幼·趣」計劃 JumpStarter團隊

陳裕榮、文若予、陳逸施、莊滄嫻、李雅庄、
吳軒亦、吳梓茵、黃子程、歐陽家樂



六號探索盒子：力與運動 - 原材料清單

活動	序號	產品名稱	材料名稱
小小發現家： 旋轉的翅果	1	翅果標本	天然植物
	2	展示框（連底座）	聚乙烯／PE 聚丙烯／PP
	3	翅果模型	紙張 聚丙烯複合材料／PP
	4	夾子	聚丙烯／PP 松木
	5	資訊卡	紙張 聚丙烯複合材料／PP
	6	自封袋	聚乙烯／PE 定向聚丙烯／OPP
小小探索家： 旋轉藝術畫	1	旋轉畫機（連畫盤）	矽膠墊片 聚丙烯／PP、工程塑料／ABS
	2	紙	紙張
	3	顏料	水彩顏料
	4	資訊卡	紙張 聚丙烯複合材料／PP
	5	自封袋	聚乙烯／PE 定向聚丙烯／OPP
小小冒險家： 有趣的陀螺	1	紙片	紙張 聚丙烯複合材料／PP
	2	水筆	工程塑料／ABS 聚酯纖維
	3	資訊卡 陀螺旋轉時間記錄表	紙張 聚丙烯複合材料／PP
	4	自封袋	聚乙烯／PE 定向聚丙烯／OPP
家長指南	1	家長指南	紙張 聚丙烯複合材料／PP
開盒目錄卡	1	開盒目錄卡	紙張 聚丙烯複合材料／PP
包裝	1	彩盒	紙張 聚丙烯複合材料／PP



六號探索盒子：力與運動 - 家長通知

各位家長，您好：

由於近日天氣潮濕多雨，部分「六號探索盒子：力與運動」內的翅果葉片出現發霉情況。我們選用真實植物，是希望讓孩子能夠親身觀察自然界中的旋轉現象，但未能預料到會出現這樣的問題，對此深感抱歉，感謝您的理解與包容。

我們將在盒子內加入乾燥包，以防止受潮。請妥善保管乾燥包，並放置於孩子無法取得之處，避免孩子誤食。當您收到盒子後，請及時打開盒子。如發現盒內葉片有發霉情況，請立即丟棄，切勿讓孩子接觸。

此外，請提醒孩子切勿將手伸入「小小探索家」旋轉畫機底部的機關位置，以免割傷。

再次感謝您的理解與支持！

如有任何疑問或查詢，請致電39779840。

賽馬會「智·幼·趣」計劃 謹啟



在設計每一個探索盒子時，我們均經過嚴謹的設計及研發程序。我們審慎篩選了一家擁有逾 20 年兒童產品研發及生產經驗的專業生產商，並持續與生產商保持溝通，以確保所有材料均符合安全標準。

生產商已為盒內的顏料取得由國際權威檢測機構 SGS 所出具的兩份毒理學風險評估報告（Toxicological Risk Assessment），分別符合美國及歐洲安全標準。報告結論顯示：

該顏料不會對皮膚造成刺激
絕大多數使用者不會因接觸該顏料而產生過敏反應

不過，任何物料都可能引起個別體質的反應，因此我們仍建議家長採取附頁二之預防措施。我們已即時聯絡生產商，就是次個案作進一步調查。

嚴格測試過程

除物料安全審核外，我們亦進行了兩個階段的嚴格測試：

- 第一階段 — 內部測試：設計團隊進行了超過三輪、共逾 100 次測試，包括與幼兒一同實際操作旋轉藝術畫活動，測試了至少三批顏料，確保活動安全可行。
- 第二階段 — 公開親子測試：於今年六月下旬，我們邀請逾 40 對親子實際試用探索盒子。研發團隊成員及所有參與的家長和孩子均未有發現任何異常情況。

我們會持續檢視我們的設計、測試及物流安排，以確保每一個探索盒子都能為孩子帶來安全、愉快的學習體驗。如 貴校就今次事件有任何查詢或需要進一步資料，請隨時與我們聯絡，我們將竭誠配合。

如有任何疑問或需要協助，請隨時聯絡我們：

電話：3977 9840/ 6594 2781(WhatsApp)

電郵：coolplay@yccece.edu.hk

安全使用提示

- 進行顏料活動前，請先在孩子手腕內側塗上少量顏料，觀察十五分鐘，確認沒有反應才開始活動。
- 活動期間請全程陪同孩子，並留意孩子的反應。
- 顏料宜在活動後盡快以溫水和肥皂或洗手液清洗；如已乾透，可先以溫水浸泡。
- 如孩子在活動期間或之後出現任何不適，請立即停止使用相關材料，並盡快諮詢醫生意見。
- 如家長知悉孩子有任何過敏史，請仔細閱讀原材料清單，避免使用可能引致過敏的材料。

關於顏料清洗

顏料的清洗效果與清洗時間息息相關——越早清洗，清洗效果越好。我們在家長信中建議家長於活動後盡快以清潔劑清洗相關用品，此建議與一般顏料的使用守則一致。如顏料已乾透，清洗難度將會相應增加，建議使用清潔劑浸泡後再清洗。

關於過敏情況

家長信中已列明所有原材料清單，供家長在使用前檢視任何致敏成份。盒內的家長指南亦有提示：「如孩子對某些材料過敏，請避免使用相關材料，或選擇合適的替代品。」

雖然 SGS 的毒理學風險評估報告顯示，絕大多數使用者不會出現過敏反應，但每位孩子的體質各有不同。如孩子在活動後出現任何不適或過敏症狀，請立即停止使用相關材料，並盡快諮詢醫生意見。

「六號探索盒子：使用旋轉畫機的注意事項」參考影片可見連結：
<https://youtu.be/oE5pZJKld7o>。



如有任何疑問或需要協助，請隨時聯絡我們：

電話：3977 9840/ 6594 2781(WhatsApp)

電郵：coolplay@yccece.edu.hk



#6 Exploration Kit: Force and Motion - Parent Notes

Dear Parents,

We're thrilled to share our third CoolPlay Exploration Kit in this academic year with you and your child.

This project is generously funded by The Hong Kong Jockey Club Charities Trust and jointly developed by the Yew Chung College of Early Childhood Education and the Hong Kong Christian Service. We believe that children's learning should not be limited to the classroom. Whether at home, in school, or within the community, young children can be inspired through hands-on exploration to sharpen their thinking, spark their curiosity, and unlock their full potential.

What's inside the kit?

The big idea of this kit is “**Force and Motion**”, with a specific focus on “Spin”. It includes three exploration kits:

- **The Starter Kit:** Recommended for K1 children, focusing on helping them learn to use simple tools.
- **The Explorer Kit:** Recommended for K2 children, emphasising sensory play and exploration with loose parts.
- **The Adventurer Kit:** Recommended for K3 children, focusing on developing design thinking and problem-solving skills.

Of course, you can freely choose activities based on your child's interests and abilities.

What will your child learn through this kit?

- Make a samara model, experiencing how plants use different shapes and spinning motions to help seeds with dispersal and survival
- Create spin art, observing the rotationally symmetrical patterns formed
- Make a paper top, learning about the top's basic structure and exploring the science of rotation and balance

These parent-child activities help children understand the concept of spinning and its various applications in daily life. We also encourage you and your child to observe and notice spinning phenomena around you, such as merry-go-rounds, fans, and spinning seeds in nature, exploring how force and motion appear in daily life.

Join in the Fun: We'd love for you to play along with your child. Your participation will make them even more curious and eager to learn.

Safety First:

- This exploration kit is recommended for children aged 3 years and above. If there are siblings under the age of 3 at home, please keep the materials out of their reach.
- All activities must be carried out under adult supervision.
- To prevent paint from staining the spinning art machine or clothing, please clean the relevant items promptly with detergent after use.
- Please pay attention to the small items in the kit and remind children at all times not to put any materials into their mouths. Parents are also advised to carefully read the list of raw materials. If a child is allergic to any of the materials, please avoid using those items or choose suitable alternatives.

Have a question? Need some help? Feel free to contact us at ☎ 6594 2781 / ✉ coolplay@yccece.edu.hk.

Happy Exploring!

Jockey Club 'CoolPlay' Project JumpStarter Team

Brad Chan, Ruoyu Wen, Ceci Chan, Esther Chong, Ada Lee,
Eliza Wu, Isabelle Ng, Kathy Wong, Andy Au-Yeung



#6 Exploration Kit: Force and Motion - Raw materials list

Activity	No.	Product name	Material name
The Starter Kit: Spinning Samaras	1	Samara Specimen	Natural Plant
	2	Display Frame (with base)	Polyethylene (PE) Polypropylene (PP)
	3	Samara Model	Paper Polypropylene Composite (PP)
	4	Clip	Polypropylene (PP) Pine wood
	5	Info Card	Paper Polypropylene Composite (PP)
	6	Zipper Bag	Polyethylene (PE) Oriented Polypropylene (OPP)
The Explorer Kit: Spin Splash Art	1	Spin Art Machine (with disc)	Silicone Gasket, Polypropylene (PP) Acrylonitrile Butadiene Styrene (ABS)
	2	Paper	Paper
	3	Paint	Watercolours
	4	Info Card	Paper Polypropylene Composite (PP)
	5	Zipper Bag	Polyethylene (PE) Oriented Polypropylene (OPP)
The Adventurer Kit: The Top Fun	1	Paper	Paper Polypropylene (PP)
	2	Marker	Acrylonitrile Butadiene Styrene (ABS) Polyester
	3	Info Card Top Spinning Time Record	Paper Polypropylene Composite (PP)
	4	Zipper Bag	Polyethylene (PE) Oriented Polypropylene (OPP)
Parent Guide	1	Parent Guide	Paper Polypropylene Composite (PP)
Index Card	1	Index Card	Paper Polypropylene Composite (PP)
Packaging	1	Colour Box	Paper Polypropylene Composite (PP)



#6 Exploration Kit: Force and Motion - Parent Notice

Dear Parents,

you have already received your Exploration Kit

Due to the recent wet and rainy weather, some of the samara included in Exploration Kit No. 6: Force and Motion have developed mould. We chose to use real plants so that your child could directly observe the natural spinning phenomenon found in nature. This was an unexpected issue that we did not anticipate, and we are truly sorry for any inconvenience caused. Thank you for your understanding and patience.

We will be including a desiccant pack in each kit to prevent moisture damage. Please store the desiccant pack safely and keep it out of reach of your child to avoid accidental ingestion. When you receive your Exploration Kit, please open the kit promptly. If you notice any mould on the leaves inside, please discard them immediately and ensure that your child does not come into contact with them.

Additionally, please remind your child not to reach into the mechanism at the bottom of the spin art machine in "The Explorer Kit" to avoid cuts.

Thank you once again for your understanding and continued support!

Should you have any questions or enquiries, please do not hesitate to contact us at 3977 9840.

Yours faithfully,

Jockey Club "CoolPlay" Project



Safety Standards for Materials Used in the Exploration Kits

In designing each Exploration Kit, we have followed a rigorous design and development process. We carefully selected a professional manufacturer with over 20 years of experience in the research, development, and production of children's products, and we have maintained ongoing communication with the manufacturer to ensure that all materials meet safety standards.

The manufacturer has obtained two Toxicological Risk Assessment reports issued by the internationally recognised testing organisation SGS for the paint included in the kit, demonstrating compliance with both U.S. and European safety standards. The conclusions of the reports indicate that:

The paint does not cause skin irritation.

The vast majority of users will not experience allergic reactions upon contact with the paint.

However, as any material may still cause individual reactions depending on personal sensitivity, we recommend that parents follow the precautionary measures listed in Appendix 2. We have also contacted the manufacturer immediately to conduct a further investigation into this case.

Rigorous Testing Process

In addition to material safety review, we carried out a strict two-stage testing process:

- Stage 1 — Internal Testing

The design team conducted more than three rounds of testing, with over 100 trials in total. This included actual use of the spin art activity with young children and testing at least three batches of paint, to ensure the activity was safe and feasible.

- Stage 2 — Public Parent-Child Trial

In late June this year, we invited more than 40 parent-child pairs to test the Exploration Kit in practice. No abnormalities were observed by the development team members, participating parents, or children.

We will continue to review our design, testing, and logistics arrangements to ensure that every Exploration Kit provides children with a safe and enjoyable learning experience.

If your school has any questions about this incident or requires further information, please feel free to contact us. We will do our utmost to assist.



Matters Relating to the Paint in #6 Exploration Kit

Safety Tips for Use

1. Before starting the paint activity, please apply a small amount of paint to the inside of the child's wrist and observe for 15 minutes. Only begin the activity if no reaction occurs.
2. Parents should accompany the child throughout the activity and closely observe the child's response.
3. The paint should be washed off as soon as possible after the activity using warm water and soap or hand wash. If the paint has already dried completely, it is recommended to soak it in warm water first.
4. If the child experiences any discomfort during or after the activity, please stop using the material immediately and seek medical advice as soon as possible.
5. If parents are aware that their child has a history of allergies, please read the list of raw materials carefully and avoid using any materials that may trigger an allergic reaction.

About Cleaning the Paint

The effectiveness of cleaning the paint is closely related to how quickly it is cleaned — the sooner it is washed, the better the result. In the parent letter, we recommended that parents clean related items as soon as possible after the activity using detergent. This is consistent with general guidelines for the use of paints. If the paint has dried completely, cleaning will become more difficult, and it is recommended to soak the items with detergent before washing.

About Allergic Reactions

The parent letter has already listed all raw materials for parents to review before use for any possible allergens. The parent guide included in the kit also contains the reminder: "If your child is allergic to certain materials, please avoid using the relevant materials or choose suitable alternatives."

Although the SGS Toxicological Risk Assessment reports indicate that the vast majority of users will not experience allergic reactions, every child might have a different reaction. If a child shows any discomfort or allergic symptoms after the activity, please stop using the relevant materials immediately and seek medical advice as soon as possible.

A reference video titled "**#6 Exploration Kit: Precautions for Using the Spin Art Machine**" is available at: <https://youtu.be/oE5pZJKld7o>



If you have any questions or need assistance, please feel free to contact us:

Tel: 3977 9840 / 6594 2781 (WhatsApp)

Email: coolplay@yccece.edu.hk