Mykid STEM 亲子项目系列策划

欢迎加入《Mykid STEM 亲子项目系列策划》！我们的系列活动旨在协助华人家庭提供高质量的教育，让父母能够更好地陪伴孩子成长。我们鼓励家长与孩子一同参与，共同实现成长目标，培养和提升孩子在各方面的潜能。

我们的亲子项目系列专为注重亲子教育的家长和朋友们设计。我们相信，在一个积极的环境中，孩子们可以相互促进，相互犯错，相互学习。通过分享培训经验，互动和鼓励，我们将帮助孩子们不断成长。

每期亲子项目将覆盖不同的领域，包括**机器人，折纸，3D 打印笔，中国文化，综合棋类，中文学习**等。我们的每期活动将持续三个小时，时间为每期六的下午 2 点至 5 点。

具体的活动内容、时间和地点将在亲子项目群中公布。**如果您有兴趣参与并教授某些亲子项目，请随时联系我们，我们鼓励家长们一同为孩子们提供丰富的亲子活动。**

报名和缴费的详细信息，请访问我们的网站 mykidstem.com。如果您有任何问题或需要进一步信息，请通过电子邮件联系我们：support@mykidstem.com。

目录

Mykid STEM 亲子项目系列策划 10/25/2023

机器人组装与设计系列

第一期：机器人小车

家庭练习：组装一个简单的机器人小车，学习如何控制它移动。
期六训练：老师会展示不同的机器人部件，以及如何组装和控制小车。
2D 机器人画图：让孩子们绘制他们理想中的机器人小车。
Tinkercad 3D 模型制作学习：介绍 Tinkercad，并帮助孩子们设计机器人小车的 3D 模型。

第二期：机器人吹泡沫

家庭练习：制作一个机器人，能够吹泡泡。
期六训练：老师将教控制机器人进行泡泡吹制作。
2D 机器人画图：让孩子们绘制他们的泡泡吹机器人。
Tinkercad 3D 模型制作学习：帮助孩子们设计泡泡吹机器人的 3D 模型。

第三期：爬行机器人

家庭练习：制作一个能够爬行的机器人。
期六训练：老师会介绍机器人运动和控制技巧。
2D 机器人画图：孩子们可以绘制他们自己的爬行机器人。
Tinkercad 3D 模型制作学习：教孩子们设计爬行机器人的 3D 模型。

第四期：涂鸦机器人

家庭练习：创建一个机器人，可以进行涂鸦或绘画。
期六训练：老师将教孩子如何控制机器人进行艺术创作。
2D 机器人画图：孩子们可以绘制他们的涂鸦机器人。
Tinkercad 3D 模型制作学习：帮助孩子们设计涂鸦机器人的 3D 模型。

第五期：手动抽水机

家庭练习：制作一个机器人，能够手动抽水。
期六训练：老师将介绍机器人控制和水泵技术。
2D 机器人画图：孩子们可以绘制他们的手动抽水机器人。
Tinkercad 3D 模型制作学习：教孩子们设计手动抽水机器人的 3D 模型。

第六期：避障机器人

家庭练习：制作一个避障机器人，能够自主避开障碍物。
期六训练：老师将介绍传感器技术和编程控制避障机器人。
2D 机器人画图：孩子们可以绘制他们的避障机器人。
Tinkercad 3D 模型制作学习：帮助孩子们设计避障机器人的 3D 模型。

第七期：皮带变速车

家庭练习：制作一个皮带变速车，学习机械工程原理。
期六训练：老师会教机械结构和动力学。
2D 机器人画图：孩子们可以绘制他们的皮带变速车。

Tinkercad 3D 模型制作学习：教孩子们设计皮带变速车的 3D 模型。

第八期：激光报警器

家庭练习：创建一个机器人激光报警系统，学习激光技术和传感器。
期六训练：老师将教导激光原理和报警器编程。
2D 机器人画图：孩子们可以绘制他们的激光报警机器人。
Tinkercad 3D 模型制作学习：帮助孩子们设计激光报警器的 3D 模型。

第九期：液压升降机

家庭练习：制作一个液压升降机，学习液压原理和工程。
期六训练：老师将介绍液压系统和机械设计。
2D 机器人画图：孩子们可以绘制他们的液压升降机器人。
Tinkercad 3D 模型制作学习：教孩子们设计液压升降机的 3D 模型。

第十期：智能光控灯

家庭练习：创建一个智能光控灯系统，学习光传感技术和自动控制。
期六训练：老师将教控制光控灯的技术和编程。
2D 机器人画图：孩子们可以绘制他们的智能光控灯机器人。
Tinkercad 3D 模型制作学习：帮助孩子们设计智能光控灯的 3D 模型。

第十一期：甩干机

家庭练习：制作一个机器人甩干机，学习机械原理和运动控制。
期六训练：老师将介绍机械设计和控制甩干机的编程。
2D 机器人画图：孩子们可以绘制他们的甩干机器人。
Tinkercad 3D 模型制作学习：帮助孩子们设计甩干机的 3D 模型。

第十二期：红绿灯

家庭练习：创建一个机器人红绿灯控制系统，学习自动控制和信号处理。
期六训练：老师将教导如何控制红绿灯系统的编程。
2D 机器人画图：孩子们可以绘制他们的红绿灯机器人。
Tinkercad 3D 模型制作学习：教孩子们设计红绿灯的 3D 模型。

额外活动：3D 打印与 3D 打印笔

在每个阶段结束后，使用 Tinkercad 3D 模型，孩子们可以制作他们设计的机器人部件并学习 3D 打印技术。这可以作为额外的家庭练习，以丰富他们的制造技能。

通过这个计划，孩子们将涵盖机器人技术、机械工程、电子学、编程、3D 建模和 3D 打印等多个领域，启发小孩 STEM 常识，培养 STEM 技能，同时通过亲子互动和专业指导，获得有趣的学习经验。

折纸

折纸的训练是根据小孩的成长来进行的，每期在家父母辅助，期六老师来指导，帮助孩子递进有层次的学习折纸与 3d，给他们足够时间，让小孩达到深度掌握。以下是我设计折纸训练的两个月计划，每期的训练都会递进，增加难度：

第一期：基础折纸技巧

步骤：教孩子和家长如何折叠简单的纸飞机、船或帽子。
意义：培养基本的折叠技巧，增强专注力和手眼协调。
期六训练：随意发挥，让他们享受折纸乐趣。

第二期：在家折纸动物，期六纸飞机比赛

步骤：在家教孩子们如何折纸制作简单的动物，如鹤、青蛙或兔子。
意义：激发创造力，了解基本折纸模型的构建。
期六训练：老师指导纸飞机步骤。

第三期：模块化折纸

步骤：介绍模块化折纸技巧，制作融合多个模块的作品。
意义：培养耐心和逻辑思维，掌握更复杂的构建。
期六训练：老师指导不同纸飞机方式。

第四期：复杂的动物和植物

步骤：制作更复杂的折纸动物和植物模型，如孔雀、玫瑰或蝴蝶。
意义：提高技能，加强家庭协作，鼓励研究和尝试新的模型。
期六训练：老师指导不同折纸步骤产生的效果与变化原理

第五期：折叠模块化 3D 作品

步骤：教孩子和家长如何创建立体的折纸作品，如星球或建筑。
意义：发展创意和工程思维，培养三维空间感。
期六训练：老师指导复杂折纸构造

第六期：自由创作期

步骤：让孩子们自由发挥创造力，设计和折纸制作他们自己的作品。
意义：鼓励独立思考和创造，同时巩固之前学到的技能。
期六指导：老师指导折纸创造与想象力

通过这个六期的计划，孩子和家长不仅可以共同度过有趣的时光，还能培养创造力、耐心和协作能力，同时提高折纸技巧。

3D 打印笔

第一期：3D 打印基础

家庭练习：孩子和家长一起学习 3D 打印的基础知识，如如何操作 3D 打印机、加载打印材料等。
意义：介绍 3D 打印的概念，培养技术兴趣，了解基本打印流程。

第二期：绘制简单图案

家庭练习：使用 3D 打印笔绘制简单的二维图案，如几何形状或小动物。
意义：培养创造力，熟悉 3D 打印笔的基本用法。

第三期：立体形状设计

家庭练习：孩子和家长一起使用 3D 打印笔绘制立体图案，如立方体或金字塔。
意义：提高三维思维能力，学会构建基本的 3D 形状。

第四期：3D 字母和数字

家庭练习：制作 3D 打印的字母和数字，练习书写和造型技巧。
意义：提高精细动作和字母数字识别能力。

第五期：制作小工艺品

家庭练习：使用 3D 打印笔制作小工艺品，如钥匙链、书签或小装饰物。
意义：培养耐心和手工艺技能，了解 3D 打印应用。

第六期：创作独特的艺术作品

家庭练习：鼓励孩子们设计并制作属于自己的独特 3D 打印艺术品。
意义：发展创造力，自主思考和表达，培养美术技巧。

第七期：打印复杂图案

家庭练习：引导孩子们使用 3D 打印笔制作复杂的立体图案，如植物、动物或建筑。
意义：挑战复杂性，提高 3D 造型技能。

第八期：实用物品设计

家庭练习：孩子和家长一起设计和制作一个实用的 3D 打印物品，如卡夹、花盆或笔筒。
意义：鼓励解决问题和应用技术，理解 3D 打印的实际用途。

第九期：艺术展示准备

家庭练习：孩子们准备他们的最终 3D 打印艺术品，以便展示和分享。
意义：培养准备和组织的能力，激发对艺术的热爱。

第十期：展示和分享

期六训练：老师将指导孩子们准备他们的艺术品，组织一个小型展示活动，邀请家庭和朋友参加。
意义：鼓励孩子们分享他们的成果，提高公共演讲和自信能力。

通过这个项目，孩子和家长将一起探索 3D 打印技术，培养创造力和技术技能，最终分享他们的成果，同时老师的指导将确保他们获得专业的支持和指导。

中国文化

针对在美国长大的小孩学习中国文化的十期策划，包括亲子活动，每一期都层层递进：

第一期 - 水彩画中国

家庭训练：家庭一起尝试中国水彩画，画一幅简单的山水画。
周六老师指导：学习中国水彩画的基础技巧和风格。
意义：孩子们通过艺术表达，了解中国绘画传统，培养创造力。

第二期 - 中国的声音

家庭训练：每周家庭共同听一段中国传统音乐或民谣，然后讨论感受。
周六老师指导：介绍中国音乐的历史，讲述乐器如古筝、二胡等。
意义：通过音乐，孩子们能够感受到中国文化的独特魅力，培养音乐欣赏能力。

第三期 - 中国的故事

家庭训练：家庭阅读一些中国的寓言故事或神话传说。
周六老师指导：讲解中国故事的背后文化和价值观。
意义：通过故事，孩子们可以了解中国的道德和智慧传统。

第四期 - 中国的诗词

家庭训练：家庭一起尝试写一首简单的中国风格诗词。
周六老师指导：学习中国诗词的韵律和写作技巧。
意义：通过诗词，孩子们培养创作能力和文学欣赏力。

第五期 - 中国的美食

家庭训练：学习制作一道中国菜，如春卷或炸酱面。
周六老师指导：介绍中国烹饪的历史和文化。
意义：通过烹饪，孩子们体验中国美食文化，学习合作和烹饪技能。

第六期 - 中国的传统节日

家庭训练：家庭一起庆祝一个中国传统节日，如春节或中秋节。
周六老师指导：讲解中国节日的意义和习俗。
意义：通过庆祝节日，孩子们体验中国文化的重要部分，培养文化尊重。

第七期 - 中国的服饰

家庭训练：学习中国传统服饰的基本知识，如汉服。
周六老师指导：介绍中国服饰的历史和演变。
意义：了解中国服饰文化，促进文化多样性理解。

第八期 - 中国的哲学

家庭训练：家庭一起探讨中国哲学思想，如儒家、道家等。
周六老师指导：介绍中国哲学的基本概念和影响。
意义： 帮助孩子们思考生活和道德问题，培养哲学思维。

第九期 - 中国的科技

家庭训练：学习中国古代科技发明，如火药、印刷术。
周六老师指导：介绍中国科技史和对世界的贡献。
意义：启发孩子们对科技的兴趣，了解中国在科技领域的贡献。

第十期 - 中国的未来

家庭训练：孩子们提出关于中国未来的想法，家庭一起探讨。
周六老师指导：讨论中国在全球的影响和未来趋势。
意义：激发孩子们对中国和国际事务的兴趣，培养全球视野。

这十期的策划不仅有助于孩子们深入了解中国文化，还通过亲子活动增进了家庭之间的联系。这种全面的学习可以激发孩子们的兴趣，培养他们的多元文化理解和创造力。

棋类综合

第一期 - 五子棋的基础

在家训练： 学习五子棋的规则，掌握如何下子。
周六指导： 介绍五子棋的历史和战略。
意义： 帮助孩子建立棋类游戏的基本思维和战术观念。

第二期 - 跳棋的规则

在家训练： 学习跳棋的规则，包括如何移动和跳跃棋子。
周六指导： 探讨跳棋的战术和策略。
意义： 培养孩子的棋类战术思维和计谋技能。

第三期 - 军旗的策略

在家训练： 学习军旗的规则和棋子的功能。
周六指导： 讲解军旗的高级策略和计谋。
意义： 提高孩子的战术规划和决策制定能力。

第四期 - 中国象棋的起步

在家训练： 学习中国象棋的基础规则，包括棋盘和棋子的移动。
周六指导： 介绍中国象棋的历史和文化背景。
意义： 通过了解中国象棋，增进对中国文化的理解。

第五期 - 围棋的基础

在家训练： 学习围棋的规则，包括棋盘上的布局和基本棋子的放置。
周六指导： 介绍围棋的战略和文化重要性。
意义： 增加对亚洲文化和哲学的理解。

第六期 - 国际象棋的战术

在家训练： 学习国际象棋的战术，如开局原则和中局计谋。
周六指导： 探讨国际象棋的深层战略和战术。
意义： 帮助孩子理解战术决策和思考未来棋局。

第七期 - 人工智能与国际象棋

在家训练： 了解人工智能在国际象棋中的应用。
周六指导： 讲解计算机在国际象棋中的发展和策略。
意义： 了解科技和计算思维的重要性。

第八期 - 中国象棋的深层战术

在家训练： 学习中国象棋的高级战术，如将帅的对决和棋局分析。

周六指导： 探讨中国象棋的高级策略和计谋。
意义： 提高战术意识和深度战略规划。

第九期 - 围棋的战略

在家训练： 学习围棋的高级战略，如领地建设和棋局评估。
周六指导： 讨论围棋的深层战术和全局战略。
意义： 培养计谋和决策制定能力。

第十期 - 棋类多样性与综合挑战

在家训练： 孩子们可以选择其中一个棋类游戏，或者结合不同游戏的规则来创建自己的游戏。
周六指导： 孩子们与家庭成员一起玩各种棋类游戏，分享他们的新规则。
意义： 通过这个综合挑战，孩子们综合运用他们在各种棋类游戏中学到的技能，创造性思考和协作。

这个计划不仅有助于孩子们掌握不同棋类游戏，还通过亲子训练加强了家庭的联系。这种全面的学习可以培养逻辑思维、战术规划、决策制定和跨文化理解。

中文学习亲子项目

一个针对在美国长大的小孩的中文教学亲子教育计划：

第一期 - 中文启蒙

在家训练：学习中文基础，包括拼音、基本词汇和日常用语。
周六指导：专业中文教师介绍中文的基本发音和简单对话。
意义：帮助孩子建立中文学习的基础，增进语言感知和文化兴趣。

第二期 - 语言交流

在家训练：学习更多中文词汇，阅读简单的中文故事书。
周六指导：中文教师引导对话练习，提高口语表达能力。
意义：促进中文听说能力，增进对中文文化的理解。

第三期 - 中文阅读

在家训练：阅读中文童书和故事，学习中文书写基础。
周六指导：中文教师指导阅读理解和写作练习。
意义：提高中文阅读和写作能力，培养文学兴趣。

第四期 - 中文文化深度

在家训练：学习中文文化的基础知识，如传统节日、习俗和美食。
周六指导：中文教师介绍中文文化的深层次内容，如传统艺术和哲学。
意义：了解中文文化，培养跨文化理解和尊重。

第五期 - 中文表演

在家训练：学习中文歌曲、舞蹈或戏剧表演。
周六指导：表演指导老师引导家庭成员进行中文表演。
意义：培养表演技巧和自信心，增进对中文艺术的热爱。

第六期 - 中文互动

在家训练：学习与中文讲者进行实际对话，如与中文讲者的亲戚或朋友。
周六指导：中文教师组织互动活动，鼓励用中文交流。
意义：提高实际中文应用能力，拓展社交圈子。

第七期 - 中文阅读与写作

在家训练：阅读中文文学作品，尝试写中文文章或散文。
周六指导：中文教师引导家庭成员写作和文学分析。
意义：提高中文文学素养，培养创作能力。

Mykid STEM 亲子项目系列策划 10/25/2023

第八期 - 中文媒体与新闻

在家训练：阅读中文新闻和杂志，观看中文电视节目。
周六指导：中文教师讨论新闻报道和媒体分析。
意义：培养媒体素养和社会意识，了解中文社会。

第九期 - 中文辩论与演讲

在家训练：学习辩论和演讲技巧，准备中文辩题或演讲稿。
周六指导：中文教师引导家庭成员进行中文辩论和演讲。
意义：提高口才、论辩能力和领导力。

第十期 - 中文社会参与

在家训练：参与中文社会组织、志愿活动或文化交流活动。
周六指导：中文教师鼓励家庭成员积极参与中文社会。
意义：促进社交参与、文化传承和社会责任感。

这个亲子教育计划旨在帮助在美国长大的小孩学习和理解中文语言和文化，通过逐步递进的学习，增强他们的中文能力和文化认同。同时，家庭成员之间的互动也将得到增进，促进更紧密的亲子关系。

其他亲子项目

以下是一个针对亲子训练：

第一期 - 钓鱼之乐

在家训练：家庭成员学习基本的钓鱼技巧和装备使用，如鱼竿的组装和鱼饵的选择。
周六指导：专业钓鱼教练引导家庭成员前往当地水域，实际体验钓鱼技巧。
意义：通过钓鱼，培养团队合作、耐心和自然亲近的能力。

第二期 - 挥杆高尔夫

在家训练：家庭成员了解高尔夫的规则和基本挥杆技巧。
周六指导：前往高尔夫球场，专业教练指导挥杆技术和比赛策略。
意义：提高精确性、耐心和团队协作，同时享受户外锻炼。

第三期 - 保龄乐趣

在家训练：学习保龄球规则和基本投球技巧。
周六指导： 家庭前往保龄球馆，专业指导提高投球精确性。
意义： 通过保龄球，培养团队合作、协调和竞技精神。

第四期 - 相扑对决

在家训练：了解相扑的历史和规则，学习基本动作。
周六指导：前往相扑场馆，专业相扑选手演示技巧，家庭成员亲自尝试。
意义：通过相扑，提高体能、坚韧性和文化理解。

第五期 - 水域畅游

在家训练：学习游泳的基本技巧和水上安全知识。
周六指导：家庭成员前往游泳池，专业教练指导提高游泳技能。
意义：通过游泳，培养自信心、身体健康和水上安全意识。

第六期 - 足球防身术

在家训练：学习足球防身术的基本原则和技巧。
周六指导：家庭前往足球场，专业足球教练教授防身术。
意义：通过足球防身术，提高体能、自卫技能和团队合作。

第七期 - 露营探险

在家训练：学习露营设备的使用、野外求生技巧和户外安全知识。
周六指导：家庭前往露营地，专业露营教练指导露营技巧和自然亲近。
意义：通过露营，培养户外生存能力、团队协作和环保意识。

Mykid STEM 亲子项目系列策划 10/25/2023

第八期 - 辩论与演讲

在家训练：学习辩论和演讲的基本技巧，如演讲稿的撰写和辩论话题的准备。
周六指导：家庭成员在模拟辩论和演讲比赛中提高表达和论辩能力。
意义：通过辩论和演讲，培养口才、自信心和思维能力。

第九期 - 脱口秀表演

在家训练：学习脱口秀表演的技巧和创作方法。
周六指导：家庭成员进行脱口秀表演，分享个人故事和见解。
意义：通过脱口秀表演，提高表达能力、自信心和人际沟通技巧。

第十期 - 演讲与领导力

在家训练：学习领导力原则和演讲技巧，准备领导力演讲。
周六指导：家庭成员进行领导力演讲，分享对领导力的理解和愿景。
意义：通过领导力演讲，培养领导潜力、团队协作和社会责任感。

这个亲子活动项目旨在培养家庭成员的各种技能和品质，促进亲子互动，增进家庭和谐。家庭成员将在各种户外和体育活动中建立更紧密的联系，同时提高身体健康、智力和社交技能。

Mykid STEM 亲子项目系列策划 10/25/2023

Parent-Child Program Handbook

Welcome to "Family Education: Parent-Child Program Handbook." This series of activities is designed to assist Chinese families in education, bringing the love of parents to their children, helping parents and children grow together, and nurturing and enhancing various developmental goals for children. Each session is three hours long, every Saturday from 2-5 PM, and it is designed for parents with a long-term interest in parent-child bonding. To register and make payments, please visit mykidstem.com. Contact email: support@mykidstem

Requirements for Joining the Parent-Child Program: Create an Environment, Encourage Mistakes.

We aim to foster an environment where children encourage each other and learn from one another. Periodically, we will share activities related to mathematics, debates, and card games. You are welcome to share your training experiences, engage in interactive discussions, and invite friends who are passionate about parent-child education.

Robot Assembly and Design Series

Phase 1: Robot Car

Home Practice: Assemble a simple robot car and learn how to control its movement.
Saturday Training: The teacher will demonstrate different robot parts and how to assemble and control the car.
2D Robot Drawing: Let children draw their ideal robot car.
Tinkercad 3D Modeling Learning: Introduce Tinkercad and help children design a 3D model of the robot car.

Phase 2: Bubble-Blowing Robot

Home Practice: Create a robot capable of blowing bubbles.
Saturday Training: The teacher will teach how to control the robot for bubble-blowing.
2D Robot Drawing: Let children draw their bubble-blowing robot.
Tinkercad 3D Modeling Learning: Help children design a 3D model of the bubble-blowing robot.

Phase 3: Crawling Robot

Home Practice: Make a robot capable of crawling.
Saturday Training: The teacher will introduce robot movement and control techniques.
2D Robot Drawing: Children can draw their own crawling robot.
Tinkercad 3D Modeling Learning: Teach children to design a 3D model of the crawling robot.

Phase 4: Graffiti Robot

Home Practice: Create a robot that can draw or paint.
Saturday Training: The teacher will teach children how to control the robot for artistic creations.
2D Robot Drawing: Children can draw their graffiti robot.
Tinkercad 3D Modeling Learning: Help children design a 3D model of the graffiti robot.

Phase 5: Manual Water Pump Robot

Home Practice: Create a robot capable of manual water pumping.
Saturday Training: The teacher will introduce robot control and water pump technology.
2D Robot Drawing: Children can draw their manual water pump robot.
Tinkercad 3D Modeling Learning: Teach children to design a 3D model of the manual water pump robot.

Phase 6: Obstacle-Avoidance Robot

Home Practice: Make an obstacle-avoidance robot capable of autonomously avoiding obstacles.
Saturday Training: The teacher will introduce sensor technology and programming for obstacle-avoidance.

2D Robot Drawing: Children can draw their obstacle-avoidance robot.
Tinkercad 3D Modeling Learning: Help children design a 3D model of the obstacle-avoidance robot.

Phase 7: Belt-Driven Vehicle

Home Practice: Create a belt-driven vehicle and learn mechanical engineering principles.
Saturday Training: The teacher will teach mechanical structure and dynamics.
2D Robot Drawing: Children can draw their belt-driven vehicle.
Tinkercad 3D Modeling Learning: Teach children to design a 3D model of the belt-driven vehicle.

Phase 8: Laser Alarm System

Home Practice: Build a robot laser alarm system and learn about laser technology and sensors.
Saturday Training: The teacher will teach laser principles and alarm system programming.
2D Robot Drawing: Children can draw their laser alarm robot.
Tinkercad 3D Modeling Learning: Help children design a 3D model of the laser alarm system.

Phase 9: Hydraulic Elevator

Home Practice: Create a hydraulic elevator robot and learn hydraulic principles and engineering.
Saturday Training: The teacher will introduce hydraulic systems and mechanical design.
2D Robot Drawing: Children can draw their hydraulic elevator robot.
Tinkercad 3D Modeling Learning: Teach children to design a 3D model of the hydraulic elevator.

Phase 10: Intelligent Light Control

Home Practice: Build an intelligent light control system using light sensor technology and automatic control.
Saturday Training: The teacher will teach the technology and programming for controlling the light system.
2D Robot Drawing: Children can draw their intelligent light control robot.
Tinkercad 3D Modeling Learning: Help children design a 3D model of the intelligent light control system.

Phase 11: Spin Dryer

Home Practice: Create a robot spin dryer and learn mechanical principles and motion control.
Saturday Training: The teacher will introduce mechanical design and programming control for the spin dryer.
2D Robot Drawing: Children can draw their spin dryer robot.
Tinkercad 3D Modeling Learning: Help children design a 3D model of the spin dryer.

Phase 12: Traffic Light System

Home Practice: Develop a robot traffic light control system and learn automatic control and signal processing.
Saturday Training: The teacher will instruct how to program the traffic light system.
2D Robot Drawing: Children can draw their traffic light robot.
Tinkercad 3D Modeling Learning: Teach children to design a 3D model of the traffic light system.

Extra Activity: 3D Printing with 3D Printing Pen At the end of each phase, using Tinkercad 3D models, children can create parts for their robots and learn 3D printing technology. This can serve as additional home practice to enrich their manufacturing skills.

Through this plan, children will cover a wide range of topics in robotics, mechanical engineering, electronics, programming, 3D modeling, and 3D printing. The project aims to foster STEM knowledge, skills, and creativity through hands-on learning and professional guidance from The teacher.

Origami

Origami training is designed to progress with the child's growth. Each phase, parents assist at home, and on Saturdays, The teacher provides guidance to help children learn origami and 3D modeling progressively with depth. The following is a two-month plan I've designed, with each phase's training building upon the previous one and increasing in difficulty:

Phase 1: Basic Origami Skills

Steps: Teach children and parents how to fold simple paper airplanes, boats, or hats.
Significance: Cultivate basic folding skills, enhance concentration, and hand-eye coordination.
Saturday Training: Explore and enjoy origami with creative folding.

Phase 2: Origami Animals at Home, Paper Airplane Competition on Saturday

Steps: Teach children how to make simple paper animals at home, such as cranes, frogs, or rabbits.
Significance: Spark creativity, understand the construction of basic origami models.
Saturday Training: The teacher guides paper airplane folding techniques.

Phase 3: Modular Origami

Steps: Introduce modular origami techniques, creating works that combine multiple modules.
Significance: Cultivate patience and logical thinking, master more complex constructions.
Saturday Training: The teacher guides different paper airplane variations.

Phase 4: Complex Animals and Plants

Steps: Create more complex origami animal and plant models, such as peacocks, roses, or butterflies.
Significance: Enhance skills, strengthen family collaboration, encourage research and experimentation with new models.
Saturday Training: The teacher guides the effects and principles of different origami folds.

Phase 5: Folding Modular 3D Artworks

Steps: Teach children and parents to create three-dimensional origami artworks, such as planets or buildings.
Significance: Develop creativity and engineering thinking, foster spatial awareness.
Saturday Training: The teacher guides complex origami constructions.

Phase 6: Free Creativity Phase

Steps: Allow children to freely unleash their creativity, designing and folding their own origami creations.
Significance: Encourage independent thinking and creativity while consolidating previously learned skills.

Mykid STEM 亲子项目系列策划 10/25/2023

Saturday Training: The teacher guides origami creativity and imagination.

Through this six-phase plan, children and parents will not only spend quality time together but also develop creativity, patience, and collaboration skills while improving their origami techniques.

3D Printing Pen

Phase 1: Basics of 3D Printing

Home Practice: Children and parents learn the basics of 3D printing, such as operating a 3D printer and loading printing materials.
Significance: Introduce the concept of 3D printing, nurture a technical interest, and understand the basic printing process.

Phase 2: Drawing Simple Patterns

Home Practice: Use a 3D printing pen to draw simple two-dimensional patterns, such as geometric shapes or small animals.
Significance: Cultivate creativity and become familiar with the basic use of a 3D printing pen.

Phase 3: Designing 3D Shapes

Home Practice: Children and parents use a 3D printing pen to create three-dimensional patterns, such as cubes or pyramids.
Significance: Improve three-dimensional thinking skills and learn to construct basic 3D shapes.

Phase 4: 3D Letters and Numbers

Home Practice: Make 3D printed letters and numbers, practicing writing and modeling skills.
Significance: Enhance fine motor skills and letter/number recognition.

Phase 5: Crafting Small Artifacts

Home Practice: Use a 3D printing pen to create small artifacts, such as keychains, bookmarks, or decorations.
Significance: Cultivate patience and craftsmanship while understanding practical applications of 3D printing.

Phase 6: Creating Unique Artwork

Home Practice: Encourage children to design and create their unique 3D printed artworks.
Significance: Develop creativity, independent thinking, and artistic skills.

Phase 7: Printing Complex Patterns

Home Practice: Guide children to use the 3D printing pen to make complex three-dimensional patterns, such as plants, animals, or buildings.
Significance: Challenge complexity and improve 3D modeling skills.

Phase 8: Practical Object Design

Home Practice: Children and parents collaborate to design and create a practical 3D printed object, such as a cardholder, flower pot, or pen holder.
Significance: Encourage problem-solving and application of technology, understanding the practical use of 3D printing.

Phase 9: Art Exhibition Preparation

Home Practice: Children prepare their final 3D printed artworks for exhibition and sharing.
Significance: Cultivate organization and preparation skills and inspire a love for the arts.

Phase 10: Exhibition and Sharing

Saturday Training: The teacher guides children in preparing their artworks and organizes a small exhibition for families and friends.
Significance: Encourage children to share their achievements, improve public speaking, and boost confidence.

Through this project, children and parents will explore 3D printing technology together, fostering creativity, technical skills, and eventually sharing their achievements. The teacher's guidance will ensure they receive professional support and instruction.

Chinese culture

A ten-phase plan for American-born children to learn Chinese culture, including family activities, each phase progressively building upon the last:

Phase One - Painting China with Watercolors

Family Training: Try Chinese watercolor painting together as a family, creating a simple landscape painting.
Saturday Teacher's Guidance: Learn basic techniques and styles of Chinese watercolor painting.
Significance: Children express themselves through art, understand the Chinese painting tradition, and develop creativity.

Phase Two - The Sounds of China

Family Training: Listen to a piece of traditional Chinese music or folk songs together as a family every phase, followed by discussions.
Saturday Teacher's Guidance: Introduce the history of Chinese music and various instruments like the guzheng and erhu.
Significance: Through music, children can experience the unique charm of Chinese culture and cultivate their appreciation for music.

Phase Three - Stories of China

Family Training: Read Chinese fables or mythological stories together as a family.
Saturday Teacher's Guidance: Explain the cultural and moral values behind Chinese stories.
Significance: Through stories, children can learn about the moral and wisdom traditions of China.

Phase Four - Chinese Poetry

Family Training: Attempt to write a simple Chinese-style poem together as a family.
Saturday Teacher's Guidance: Learn the rhyme and writing techniques of Chinese poetry.
Significance: Children develop creative writing skills and literary appreciation through poetry.

Phase Five - Chinese Cuisine

Family Training: Learn to prepare a Chinese dish, such as spring rolls or zhajiangmian.
Saturday Teacher's Guidance: Introduce the history and culture of Chinese cuisine.
Significance: Through cooking, children experience Chinese culinary culture, learn teamwork, and culinary skills.

Phase Six - Traditional Chinese Festivals

Family Training: Celebrate a traditional Chinese festival together as a family, such as the Spring Festival or Mid-Autumn Festival.
Saturday Teacher's Guidance: Explain the significance and customs of Chinese festivals.

Significance: Celebrating festivals helps children experience an essential part of Chinese culture and fosters cultural respect.

Phase Seven - Chinese Attire

Family Training: Learn the basics of traditional Chinese clothing, such as Hanfu.
Saturday Teacher's Guidance: Introduce the history and evolution of Chinese clothing.
Significance: Understanding Chinese clothing culture promotes diversity and cultural understanding.

Phase Eight - Chinese Philosophy

Family Training: Discuss Chinese philosophical thoughts together, such as Confucianism and Daoism.
Saturday Teacher's Guidance: Introduce basic concepts and the influence of Chinese philosophy.
Significance: Encourage children to contemplate life and ethical questions and develop philosophical thinking.

Phase Nine - Chinese Technology

Family Training: Learn about ancient Chinese technological inventions, like gunpowder and printing.
Saturday Teacher's Guidance: Introduce the history of Chinese technology and its global contributions.
Significance: Spark children's interest in technology and teach them about China's contributions to the field.

Phase Ten - China's Future

Family Training: Children propose ideas about China's future, and families discuss them together.
Saturday Teacher's Guidance: Discuss China's global impact and future trends.
Significance: Inspire children's interest in China and international affairs, nurturing a global perspective.

This ten-phase plan not only helps children delve into Chinese culture but also enhances family bonding through these activities. This comprehensive approach fosters multicultural understanding and creativity in children.

Chinese Language Learning Family Program

A Chinese language teaching and parenting education program designed for children raised in the United States:

Phase 1 - Chinese Language Basics

At-Home Training: Learn Chinese basics, including Pinyin, basic vocabulary, and everyday phrases.
Saturday Guidance: Professional Chinese language teachers introduce basic pronunciation and simple dialogues in Chinese.
Significance: Help children establish the foundation for Chinese language learning, enhance language awareness, and stimulate cultural interest.

Phase 2 - Language Communication

At-Home Training: Learn more Chinese vocabulary, read simple Chinese storybooks.
Saturday Guidance: Chinese teachers lead dialogue exercises to improve spoken language skills.
Significance: Promote Chinese listening and speaking skills and enhance understanding of Chinese culture.

Phase 3 - Chinese Reading

At-Home Training: Read Chinese children's books and stories, learn basic Chinese writing.
Saturday Guidance: Chinese teachers guide reading comprehension and writing exercises.
Significance: Improve Chinese reading and writing skills while fostering a love for literature.

Phase 4 - In-Depth Chinese Culture

At-Home Training: Learn basic knowledge of Chinese culture, such as traditional holidays, customs, and cuisine.
Saturday Guidance: Chinese teachers introduce deeper aspects of Chinese culture, including traditional arts and philosophy.
Significance: Gain an understanding of Chinese culture, promoting cross-cultural understanding and respect.

Phase 5 - Chinese Performances

At-Home Training: Learn Chinese songs, dances, or theatrical performances.
Saturday Guidance: Performance instructors guide family members in Chinese performances.
Significance: Develop performance skills and confidence while fostering a passion for Chinese arts.

Phase 6 - Chinese Interaction

At-Home Training: Learn to engage in real conversations with Chinese speakers, such as relatives or friends.
Saturday Guidance: Chinese teachers organize interactive activities to encourage Chinese communication.
Significance: Enhance practical Chinese language skills and expand social circles.

Phase 7 - Chinese Reading and Writing

At-Home Training: Read Chinese literary works and attempt writing Chinese articles or essays.
Saturday Guidance: Chinese teachers guide family members in writing and literary analysis.
Significance: Improve Chinese literary literacy and cultivate creative writing skills.

Phase 8 - Chinese Media and News

At-Home Training: Read Chinese news and magazines, watch Chinese TV programs.
Saturday Guidance: Chinese teachers discuss news reporting and media analysis.
Significance: Cultivate media literacy and social awareness while gaining insights into Chinese society.

Phase 9 - Chinese Debate and Public Speaking

At-Home Training: Learn debate and public speaking skills, prepare Chinese debate topics or speeches.
Saturday Guidance: Chinese teachers guide family members in Chinese debates and public speaking.
Significance: Enhance eloquence, debate skills, and leadership abilities.

Phase 10 - Chinese Community Engagement

At-Home Training: Participate in Chinese community organizations, volunteer activities, or cultural exchange events.
Saturday Guidance: Chinese teachers encourage family members to actively engage in the Chinese community.
Significance: Promote social participation, cultural heritage, and social responsibility.

This parenting education program aims to help children raised in the United States learn and understand the Chinese language and culture. Through progressively structured learning, it enhances their Chinese language skills and cultural identity. Furthermore, it fosters increased interaction among family members, strengthening the parent-child relationship.

Other Parent-Child Programs

Here's a program designed for parent-child training in various outdoor and sports activities:

Phase 1 - The Joy of Fishing

At-Home Training: Family members learn basic fishing techniques and equipment use, such as assembling fishing rods and selecting bait.
Saturday Guidance: Professional fishing coach guides family members to local waters for hands-on fishing experience.
Significance: Through fishing, develop teamwork, patience, and a closer connection with nature.

Phase 2 - Golf Swing

At-Home Training: Family members learn the rules of golf and basic swing techniques.
Saturday Guidance: Visit a golf course where a professional coach instructs on swing techniques and game strategies.
Significance: Improve precision, patience, teamwork, and enjoy outdoor exercise.

Phase 3 - Bowling Fun

At-Home Training: Learn bowling rules and basic throwing techniques.
Saturday Guidance: Families head to a bowling alley where a professional coach enhances throwing accuracy.
Significance: Through bowling, foster teamwork, coordination, and a competitive spirit.

Phase 4 - Sumo Showdown

At-Home Training: Understand the history and rules of sumo wrestling, learn basic movements.
Saturday Guidance: Visit a sumo arena where professional sumo wrestlers demonstrate techniques, and family members try it themselves.
Significance: Improve physical fitness, resilience, and cultural understanding through sumo wrestling.

Phase 5 - Aquatic Adventures

At-Home Training: Learn basic swimming techniques and water safety.
Saturday Guidance: Family members visit a swimming pool where a professional coach improves swimming skills.
Significance: Through swimming, develop confidence, physical well-being, and water safety awareness.

Phase 6 - Soccer Self-Defense

At-Home Training: Learn basic principles and techniques of soccer self-defense.
Saturday Guidance: Visit a soccer field where a professional coach teaches self-defense techniques.

Significance: Through soccer self-defense, improve physical fitness, self-defense skills, and teamwork.

Phase 7 - Camping Exploration

At-Home Training: Learn to use camping equipment, wilderness survival skills, and outdoor safety knowledge.
Saturday Guidance: Families go camping with guidance from a professional camping coach to learn camping skills and connect with nature.
Significance: Develop outdoor survival skills, teamwork, and environmental awareness through camping.

Phase 8 - Debate and Public Speaking

At-Home Training: Learn debate and public speaking skills, including preparing debate topics or speeches.
Saturday Guidance: Family members engage in debate and public speaking with guidance from professional trainers.
Significance: Enhance eloquence, debate skills, and leadership abilities.

Phase 9 - Stand-Up Comedy Performance

At-Home Training: Learn stand-up comedy performance techniques and creative methods.
Saturday Guidance: Family members perform stand-up comedy, sharing personal stories and insights.
Significance: Improve presentation skills, confidence, and interpersonal communication.

Phase 10 - Leadership and Public Speaking

At-Home Training: Learn leadership principles and public speaking skills, prepare leadership speeches.
Saturday Guidance: Family members deliver leadership speeches, sharing their understanding and vision of leadership.
Significance: Cultivate leadership potential, teamwork, and social responsibility through leadership speeches.

This parent-child program aims to cultivate various skills and qualities in family members, promote parent-child interaction, and enhance family harmony. Participants will establish closer connections through a variety of outdoor and sports activities, while improving physical health, intelligence, and social skills.