

編號： 343 系所：工業設計學系在職專班

科目：工業設計（專班）

本試題是否可以使用計算機：可使用，不可使用（請命題老師勾選）

(1)請參考底下關於 IDEO 的文章：

Back in 1990, Bill Moggridge, a principal of the design firm IDEO, realized that for some time he and some of his colleagues had been creating a very different kind of design. It wasn't product design exactly, but they were definitely designing products. Nor was it communication design, although they used some of that discipline's tools as well. It wasn't computer science either, although a lot of it had to do with computers and software. No, this was something different. It drew on all those disciplines, but was something else, and it had to do with connecting people through the products they use. Moggridge called this new practice interaction design. Interaction design is the art of facilitating interactions between humans through products and services. (摘自 "design for interaction" 一書)

根據前面的想法，請您設計一樣產品來提供親子(父母與小孩)互動。請詳細敘述您設計過程的想法與步驟如下：

- (a)互動的理由為何 (10%)
- (b)進行此設計的注意要點為何 (10%)
- (c)最終設計精描圖 (20%)
- (d)說明適合親子間使用之理由與特點(10%)
- (e)繪製工程圖 (10%)

(3)請依據第 1 題所設計完成的「親子互動產品」，進行評估實驗設計，請提出三項評估的指標。實驗設計需包含下列步驟：

- (a)受測者描述 (5%)
- (b)實驗設備(軟、硬體)描述 (10%)
- (c)實驗步驟與流程之描述 (10%)
- (d)實驗數據收集與分析(包含三項評估指標)之方法 (15%)

※作答時請註明題號否則不予以計分