**DETOUR**

**Team Name:** OCC 2

**Exhibit or Area of Zoo:** Children’s Zoo – Koi Pond

**List the observation, or discrepant event, that prompted your curiosity.**

Colorful fish in the pond

**What SCIENCE questions or prompts come to mind?**

Are they all the same species, even though different colors?

**What TECHNOLOGY questions or prompts come to mind?**

Why are they orange (partly)? Is there an evolutionary advantage? Should our submarines be orange too?

**What ENGINEERING questions or prompts come to mind?**

What habitat considerations do you need to consider when designing this exhibit?

**What MATH questions or prompts come to mind?**

How much fish/food/waste do you need to add/remove? How many fish fit?

**DETOUR**

**Team Name:** OCC 2

**Exhibit or Area of Zoo:** Flamingos

**List the observation, or discrepant event, that prompted your curiosity.**

Loud and bright. Drew us close.

**What SCIENCE questions or prompts come to mind?**

Why are they orange/pink and do the degrees of color differ with the amount of food?

**What TECHNOLOGY questions or prompts come to mind?**

If their wings are clipped, could this be reversed in order for them to survive in their natural environment?

**What ENGINEERING questions or prompts come to mind?**

Could man recreate how flamingos use their senses to locate food sources?

**What MATH questions or prompts come to mind?**

How much food does this population consume to stay healthy?

**DETOUR**

**Team Name:** OCC 2

**Exhibit or Area of Zoo:** Elephants

**List the observation, or discrepant event, that prompted your curiosity.**

Young elephant doing tricks.

**What SCIENCE questions or prompts come to mind?**

How many muscles do elephants have? How many in just their trunks?

**What TECHNOLOGY questions or prompts come to mind?**

What technology can be used to help us train elephants?

**What ENGINEERING questions or prompts come to mind?**

What are elephants used for and what could humans design/make to replace the elephants in work environments?

**What MATH questions or prompts come to mind?**

How many pounds of food do elephants eat each day?

**DETOUR**

**Team Name:** OCC 2

**Exhibit or Area of Zoo:** Herpetarium – Sri Lankan Pit Viper

**List the observation, or discrepant event, that prompted your curiosity.**

Snake is slithering around

**What SCIENCE questions or prompts come to mind?**

How does it move without legs?

**What TECHNOLOGY questions or prompts come to mind?**

Is the heat sensing the snake does similar to man-made thermal imaging?

**What ENGINEERING questions or prompts come to mind?**

Has man made/designed something (vehicle) that moves the same way as a snake?

**What MATH questions or prompts come to mind?**

How much venom would be toxic to a 100 pound human?