**Multi Touch Activity – Curious Camera – Teacher’s notes**

This activity is designed to be used in the week(s) following your visit. It has been devised to generate recall of the trip whilst promoting higher order thinking. To this end, it can take up to 10-15 minutes to deliver at the start or end of the school day, but could be used as an extended task. Please do provide feedback to tell us how you used it and its level of impact.

For each picture or video, allow children to discuss and share their ideas in pairs before fielding answers from the class. All videos are integrated into the presentation and will automatically play as you click through the slides. Sound is not required but can be used if desired.

*Please note: the presentation file size is quite big so may take longer than usual to open.*

**Slide 1:** Cover slide.

**Slide 2:** Remind the students of what the Curious Camera does. It is an infrared camera, so it detects heat. Your students may remember the key at the bottom of the screen, as a reminder that blue is cold and red/white is hot.

**Slide 3-4:** Students are shown some still images of different stages of a kettle boiling, in the view of the infrared camera. Ask them to put them in order of occurrence. The answers are revealed on slide 4.

**Slide 5-6**: Students watch a video in infrared and guess what they think is going on. On slide 6, the infrared and regular videos are compared side by side. Slides 5 and 6 shows hot water (from a kettle) being poured into a tray of cold water.

**Slide 7-8:** Students guess what the infrared image shows. Slide 8 reveals what the infrared image looks like in normal light. Slides 7 and 8 show ice cubes in a tray.

**Slide 9-10:** Students watch a video in infrared and guess what they think is going on. On the slide 10, the infrared and regular videos are compared side by side. Slide 9 and 10 is hot water being poured over a tray of ice cubes.

**Slide 11, 12, 13:** Students watch a video in regular light and predict what they think it will look like in infrared. Slide 12 shows the two videos, in infrared and in regular view, side by side. Slide 13 explains what is happening.

**Slide 14:** Shows our staff member Emily ‘drawing’ glasses on her face with an ice cube in both regular and infrared. This is a fun visual for your students.

**Slide 15:** Shows an everyday use of infrared technology. A firefighter using an infrared camera to detect an injured person in a smokey room.

**For more info on infrared cameras:** http://coolcosmos.ipac.caltech.edu/image\_galleries/ir\_zoo/lessons/background.html