Lección 3: Jugando con actividades acción-reacción

# Autor: Rocio Montenegro Contribuciones: [add your name]

# Preparación de la lección.

El instructor principal llegara 20 minutos antes de la lección para preparar el material de la lección, las hojas de retroalimentación para sus ayudantes y checar que las instalaciones estén en orden y limpias para recibir 12 participantes 5 minutos antes de la lección. La duración de la lección es de 60 minutos con 30 minutos extra en caso de que algunas actividades tomen unos minutos mas.

| **Activity** | **Time** | **Material** | **Skill /competence** | **Development** |
| --- | --- | --- | --- | --- |
| Bingo  Ice braker | 10 min | Bingo cards |  | Distribute the bingo cards among the children  Play bingo by colling each object using the cards  Find in printables |
| Sensors  [DIEGO] | 10 min |  | Have a better understanding of what a sensor is. | Teacher will explain the different kinds of sensors  \*refer to PowerPoint presentation: meztli  Explain different kinds of sensors.   * Sound sensors (microphone/speaker) * Ultrasound sensor * Touch sensor * Servo motors * Batteries |
| Group activity  (Follow up) | 15 min |  |  | Using if/else conditions ask children to use different sensors to make gestures with your robot. For instance,   * Using ultrasound sensor to detect objects and create sounds * Using touch sensors to make the robot move their legs (servo motors) * Using microphone to clap and make the robot move their hands |
| B R E A K | | | | |
| Action-reaction concept | 10 min |  | Critical thinking | The teacher will explain the concept of action-reaction  Teacher will provide examples:  Play on the rain-get wet  Study - pass test |
| Group activity  (follow up) | 10 min | Cause and effect worksheet\* | Sequential thinking | Distribute the action reaction/reaction worksheet.   * You can work only with one of the working sheets * Children will cut the square at the button of each page   Invite them to paste the corresponding cause to the effect in empty square at the right/left |
| Action -reaction with Otto | 25 min |  | Developing Creativity  Sequential thinking | Children will have the opportunity to explore and create actions-reactions by using previous knowledge   * Create a choreography for Otto (and others) * Design your football game * create a car race game * solve a labyrinth |

# Cierre de la lección

| Clean up time | 5 min |  | Create good habits | Clean Up Time |
| --- | --- | --- | --- | --- |
| Self -assessment | 3 min |  | Reflective thinking | TO BE COMPLETED |
| Closing | 2 min |  |  | Give some clues of the main topic you will cover next time. This helps to engage the children and look forward to coming to their next session. |

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