Summary from the Collaboration Development Lab



We made representations of collaboration (see attached)

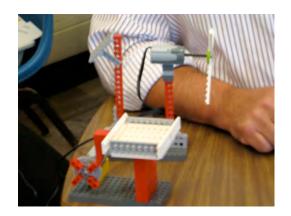
Discussed a collaborative activity:

- ☐ The Infinity Loop
 - o Small groups (4-6) are responsible for moving a ping pong ball through their 1x1m space
 - o Each small group must collaborate with a group before and after them to assure that the ball continues
 - Numerous groups work together so that the ball travels the length of a room sized infinity loop



Ideas we explored:

- ☐ Building models that show how collaboration is needed to solve environmental issues with natural resources (wind, water, and solar energy transfer devices)
- ☐ Collaborating by assigning changing roles throughout the design and construction of the project



	Building robots that collaborate by greeting each other (within single classroom, and across classrooms and schools) O Collaboration working with other teams to coordinate "hi-fives", discussions, etc.
	Experimenting with proportionality through the use of different sized wheels for "front end" and "back end" of robotic car – to enable the car to move forward, the "front end" designer and "back end" designers needed to collaborate on the
	Collaborating through the design of "robotic soccer legs": two legs that would kick ball back and forth between each other Using WeDo hardware to enable collaboration between different grade levels – high school and/or middle school youths working with elementary school youths.
sig	hts we gained:

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Female / male collaboration was quite natural and evident through exploration of MINDSTORMS hardware and software.
Collaboration goes beyond small independent "group" assignments.
Large-scale collaborations might require smaller teams to contribute to an
overarching greater goal. Achievement of the goal is dependent on each
individual team's contribution. We might call this "multi-group collaborative
learning."
We all have valuable ideas about what constitutes true collaboration
("Collaboration Sketches" follow).