**Science lesson #4**

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| Topic | Forces |
| Curricular Connection | Forces influence the motion of an object.  Contact Forces through magnetic interactions: attract and repel |
| Video Activity | Abby and Marley mirror each other and with the direction of Rylee practice using the words attract and repel with their bodies. Rylee gives examples such as “foot repels hand” and “elbow attracts thumb” while Marley and Abby have to practice following the instructions. |
| Activity | Introduce magnets and the following video to students: <https://www.youtube.com/watch?v=v2dejMC4fpQ>  Have students practice repelling and attracting their body parts (feet, hands, elbows, knees) independently.  Have students practice repelling and attracting with a partner using the mirroring technique with teacher guidance (knee to knee repel, hand to foot attract)  Continue practicing in partners or as a whole group trying different methods with the use of pinnies or ribbons:  half class represents North, half represents South  One half of each students’ body represents North the other half represents South (side to side or top and bottom) |
| Extension Information | Students use their bodies to show what is magnetic in the classroom. They can check their answers with real magnets after.  Teachers can connect this to positive and negative charges in magnets (hand with a negative charge and foot with a positive charge), challenging students to decide which challenge will attract and which will repel. |

(EDCHAT, 2013)