




Independent Learning Task

Subject	Science								
ILP #3	Using electromagnets								
Week set:	Week 19								
Duration:	1 hour								
Hand in:	Week 21								
Instructions:	<p>Produce a leaflet that could be given to a passenger on the 'Floating Train'. The train floats (travels) at 500 kilometres per hour. Explain how the train makes use of electromagnets to float and move.</p>  <p><small>World record setting maglev train greets visitors to the Maglev Exhibition Center</small></p>								
Skills:	<ul style="list-style-type: none"> • Developing research skills. • Linking scientific ideas to real life situations. • Communicating scientifically. 								
Marking schema:	<table border="1"> <thead> <tr> <th>Secure</th> <th>Developing</th> <th>Excellent</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> - Create a leaflet that includes a diagram or picture of an electromagnet. - Explain how the train floats and moves. </td> <td> <ul style="list-style-type: none"> - Create a leaflet that includes a diagram or picture of an electromagnet. - Explain how the train floats and moves. - Explain the principle of attraction and repulsion with magnets. </td> <td> <ul style="list-style-type: none"> - Create a leaflet that includes a diagram or picture of an electromagnet. - Explain the principle of attraction and repulsion with magnets. - Describe how air resistance is reduced for the train. </td> </tr> </tbody> </table>			Secure	Developing	Excellent	<ul style="list-style-type: none"> - Create a leaflet that includes a diagram or picture of an electromagnet. - Explain how the train floats and moves. 	<ul style="list-style-type: none"> - Create a leaflet that includes a diagram or picture of an electromagnet. - Explain how the train floats and moves. - Explain the principle of attraction and repulsion with magnets. 	<ul style="list-style-type: none"> - Create a leaflet that includes a diagram or picture of an electromagnet. - Explain the principle of attraction and repulsion with magnets. - Describe how air resistance is reduced for the train.
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Additional guidance or help:	<p>Use the following YouTube links:</p> <p>https://www.youtube.com/watch?v=BqmYvROFGr0</p> <p>https://www.youtube.com/watch?v=S4L_0CDsd1I</p>								