P7 Transition Task			
I am developing my Scientific Literacy skills!			
I can demonstrate a practical understanding of			
the Scientific method!			
What is Science?			
Part 1 Introduction			
Science consists of observing the world by watching, listening, observing, and recording.			
Anyone can think like a scientist. Science is			
 Observing the world. Watching and listening Observing and recording. 			
Let's do some easy, but interesting Science!!			

Part 2 - Science Experiment

First forming a hypothesis (this is a guess or prediction, which also forms the question **we will answer with science**).

1. Here is our Question:

'Does music effect plant growth?'

2. So our hypothesis could be (guess what the result will be):

'We think music WILL help plants grow better'

Or

'We think music WON'T help plants grow better'

Circle the hypothesis above that YOU think will be the result.

Now for the experiment to **test** if your **hypothesis** is correct.

Experiment equipment:

You will need:

- Some cress seeds (these can be found in supermarkets)
- Some soil from outside. (Be careful, there are no sharp stones or glass in it). If your parents have plant potting compost use this instead.
- Two old yogurt pots or other plastic containers.
- A ruler or measuring tape

Experiment preparation:

- Fill up the yoghurt pots or plastic containers with soil.
- Thoroughly wash your hands after touching the soil.
- Place 10 seeds in one pot and 10 seeds in another pot, making sure they are evenly spread out.
 (Just put the seeds just underneath the soil do not put them in too deep just sprinkle a dusting of soil over them).
- Label one pot 'music', and label the other 'no music'.
- Add around 20cm³ of water to both pots covering all the seeds. It is important to add the same volume of water to both. (Ideally use a measuring jug or cup with a scale from your kitchen in you have one).
- Leave them on a window sill, or somewhere sunny, (but not somewhere they will dry out or get too hot - like too near a radiator).

Carrying out the experiment:

- Here is the interesting part: Play your favourite music to one the set of plants labelled 'music'. (You need to make sure the other 'no music' pot is far enough away that the seeds cannot be influenced by the music).
- Play the music every day for an hour or more to only the 'music' group. It must be music you really like.
- Look after the seeds add 10cm3 of water to the pots every 2 days - Important: You must add the same volume of water to both pots to keep the experiment fair.

- If you think the pots are too wet, water every 3 days with the same volume instead. BUT, if you think the pots are too dry, water them every day. Please be careful too much water will make it too muddy and eventually kill the plants. Not enough water will make it too dry and kill the plants. The soil must feel just a bit damp to the touch every day. You have to judge/look after your experiment.
- Leave to grow for 3 weeks.

Writing down your results:

• After 3 weeks, the plants will have grown. Measure the height of the plants with a ruler and record them in the table below:

Plant	'Music' pot Height (mm)	'No Music' pot Height (mm)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
AVERAGE HEIGHT (mm)		

Learning from our experiment by coming to a conclusion:

The hypothesis I circled at the start was:

'We think music WILL help plants grow better' Or 'We think music WON'T help plants grow better'

Do your results show your hypothesis to be correct?

Yes or No

Music has/has not shown an effect on plant growth because

Evaluation:

Sources of **error** might be:

Steps that **should be taken** to make this a better experiment **next time**: