**Year 6 Transition work**

Choose as many or a little of the different activities below.

**Task A**: Make your own chromatogram. Use this video to make a chromatogram at home ([www.youtube.com/watch?v=08YMBGS1pYU](http://www.youtube.com/watch?v=08YMBGS1pYU)). You can use coffee filter paper or paper towels instead of the filter paper.

**Task B**: Does melted chocolate re-solidified chocolate taste the same as the original chocolate?

Using the same chocolate bar, melt half (carefully!) and let cool back into a solid. Has the re-solidified chocolate have same properties as the original chocolate? Can you think why?

**Task C**: Think about the living things that you might find in your garden or in a local park. Can you list as many organisms from your area as you can. Then divide them in a list of producers, herbivores and carnivores.

**Task D**: Find five objects at home that are made from different materials. Fill in the table to show why the objects are made from their materials. One has been done as an example.

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| --- | --- | --- |
| **Object** | **Material the object is made from** | **Properties of the material that make it suitable for the object.** |
| Frying pan | metal | Good conductor of heatRigid |
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**Task E**: Chemistry investigation; Which fizzy pop cleans a penny best? Using different types of fizzy pop (coca cola, tesco cola, asda cola, diet cola, pepsi max etc) add old pennies and soak them over night. Make sure that you keep it a fair test (same length of time in the fizzy pop, same volume of fizzy pop).

**Task F**: Watch the moon every night for a week. Write down what it looks like each day, Think about its shape and brightness.

**Task G**: Make a lava lamp. Use this video to make your own lava lamp. ([www.youtube.com/watch?v=ugzsjlBMmKI](http://www.youtube.com/watch?v=ugzsjlBMmKI))

**Task H**: Answer all these questions about the human heart

1. Where is the Heart found in your body?
2. What does your heart do?
3. What controls your heart rate?
4. Record your pulse what you are resting and then after star jumps or a quick jog for two minutes. Fill in a table of results. Look at this one as an example
5. What was the difference between the pulse rate? Can you explain why?
6. List two ways you could improve your investigation.