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| **Year Six: week 14 (13th- 17th July)** |
| **English**Reading:By the end of the week, children should have: * read an allocated book from Bug Club, ensuring to read and answer questions about the text.
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| **Maths*** completed some TTrockstars and Numbots activities as a way of practising their number and times tables skills.
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| **Topic work****A daily dance. DO NOT CLICK ON LINKS WITHOUT PERMISSION FROM AN ADULT.**Last week in school, we all enjoyed the Big Dance, and as this is our last week of term, we thought we would include a few dance numbers to try to learn. Look at the links below and see if there are any you would like to try. **Easy level**

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| Bob the Builder – Big Fish Little Fish. <https://www.youtube.com/watch?v=O7o1RG3qDf8><https://www.youtube.com/watch?v=mgf4DrhmrYk> Bob the Builder video |
| Macarena: A step by step dance guide<https://www.youtube.com/watch?v=iAXBWLiJL5A> |
| CHA CHA SLIDE DANCE<https://www.youtube.com/watch?v=I1gMUbEAUFw> |

**More difficult.**

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| Ten-minute routine for disco. Adverts at around 3.40 and 7.20<https://www.youtube.com/watch?v=cgDppkLnImI&list=TLPQMTIwNzIwMjB32VqYVdK2HQ&index=2> |
| Ten-minute routine to Festival bangers Has an advert pop up at around 5minutes<https://www.youtube.com/watch?v=FshCwz28Mgo>  |

Challenge

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| Ten- minute routine for Jive. <https://www.youtube.com/watch?v=FkrPLFQQzXY> |
| Twenty-minute Hip Hop dance routine.<https://www.youtube.com/watch?v=Kd-Va1m4s1E> |

**Science**We hope you have had a bit of fun with one of the science tasks last week; this week we want you to try another investigation; however, if you have any science investigations of your own, then give them a go and let us know how you get on. On line science activities can be found at:<https://pstt.org.uk/resources/curriculum-materials/Science-Fun-at-Home>**Make sure an adult at home gives you permission to visit this science website**:* You can select any of the different science activities to try at home, so remember to pick the activities that you are most curious about trying. Here are some possible ideas.

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| **Where to find the activities: Science Fun at Home** |
| 1. **Egg-citing science**
2. **Spider Safari**
3. **What a Gas**
 | 1. **Salty Science**
2. **Body Science**
3. **Rocket Science**
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Five other science tasks have been added below.

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| 1. **Exploring air-resistance: Parachutes.**

Developing ideas about air resistance.* Using a piece of newspaper: let the paper fall from a set height; fold the paper in half and half again, and repeat; finally, scrunch the paper up and repeat once more.
* How does the paper fall each time? What path does it take through the air? How long does it take?

Challenge task: **Lego figures are trapped in a tall building and need to escape. Can you design a parachute so that they can leave the building safely?*** Make different types of parachute.
* Test them out and then make improvements.
* How will you know which parachute is the best?
* Which parachute worked well and why?

Outcome: * Which forces are acting on a parachute as it falls?
* Is there a most efficient shape for a parachute?
* How do parachutes work?
* What materials can parachutes be made from?
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| 1. **Overcoming Friction: Hovercrafts**

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| You will need:  | An old CD disc;bottle top that can cover over the hole in the CD.balloon.  |

Developing ideas about friction. * Slide a CD across different types of surfaces that you have at home.
* How does the CD move each time?
* Why is it different?
* What forces are acting on the CD?
* Rank the surfaces you used by the amount of friction they exerted on the CD.
* Get an adult to help you glue the bottle top to the CD, so that it covers the hole in the centre.

Challenge task: Hovercraft science. * Use a balloon to help you reduce the friction acting on the CD as it passes across a surface?
* Try to make your hovercraft. Test out your ideas and make improvements.
* Explore how the air leaving the balloon and travelling through the bottle top, makes the CD travel differently
* Time how fast your hovercraft can go over different surfaces.

Outcome: * What is a hovercraft and how does it work?
* What forces are acting on a hovercraft when it is moving?
* How does a hovercraft move over different surfaces?
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| 1. **Exploring materials.**

Developing ideas about thermal conductors and insulators.Challenge task: **Which material will make the ice cube melt the slowest?*** You need: ice cubes, a range of different types of material found around the home, such as paper, polythene, plastic, fabric etc.
* Predict which one you think will make the ice cube melt the slowest.
* Find a way to wrap the ice cubes in the material and time how long they take to melt. Make the test as fair as possible.

Outcome: * Test the materials and rank them in order of the worst to best.
* Why do you think the best material was more successful than the others?
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| 1. **Exploring materials**

Developing ideas about chromatography. Challenge task: **How many colours are in a pen?** * You need: a selection of felt tip pens, or a range of pens that use black ink; toilet or kitchen paper and water.
* On the toilet or kitchen paper, you need to draw a large dot using the coloured pens.
* You need to carefully drip water on to the centre of the coloured spot.
* Watch what (hopefully) happens.

Outcome: * Which coloured pens had the most colours in it?
* Can you find a reason why this might happen?
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| 1. **Exploring the human body**

Challenge task: **Who has the quickest reactions in your household?** * Predict who you think will be the quickest.
* You need: willing volunteers, a 30cm ruler and something to record your results on.
* The volunteer must hold out their hand as if shaking someone’s hand. The thumb and fingers should be pointing straight.
* The person carrying out the test needs to hold the 30cm ruler about a cm above the volunteer’s hand with 0cm closest to their fingers. Without warning let go of the ruler.
* The volunteer needs to try and grab the ruler. Read the cm closest to the top of their hand. To be fair, you should test each person at least three times.

Outcome: * Look at your results and work out who had the quickest reaction. Did your results have any surprises in?
* Would you get the same results if you asked them to try it with their other hand? Try it?

**Extension work*** Can you come up with another test that could check the reactions of people in your home?
* Mr Parr says that people with the longest legs can jump further from a standing position. Can you think of a way to test if he is correct?
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**General knowledge. Do not click on the links without the permission of an adult.** Quiz on UK geography<https://www.youtube.com/watch?v=F5YuDqo1cgU>Guess the children’s cartoon theme tune. <https://www.youtube.com/watch?v=RZ_xOGlbibg>Guess the children’s film from the theme tube. <https://www.youtube.com/watch?v=jGqrn__Fz44>Very difficult. Guess the Disney character’s voice<https://www.youtube.com/watch?v=tB0HYM9rPvQ>Have a lovely final week. Best wishes from Mr Fitzpatrick, Mr Nash and Mr Parr. **If you cannot access a device at any time, complete an activity that doesn’t require a device.****If you need to ask any questions, please email the year 6 team via the contact email address.** |