

Science Challenge



Brilliant Bodies

This week we are going to find out about parts of our amazing and brilliant bodies. We are going to learn about our 5 senses- sight, hearing, touch, smell and taste. This BBC bitesize page helps us to identify body parts. There is a short video to watch and a quiz.

<https://www.bbc.co.uk/bitesize/topics/zfg8mp3/articles/zbxnscw>

Draw a body outline on paper. If you have a large piece of paper such as a piece of wallpaper you could draw around a person. Identify and label some body parts. Identify the 5 senses and the parts of the body associated with these. Eyes, nose, mouth, ears and skin.

Talk about what you like to hear, see, taste, smell, touch. Think about different places you have been such as the supermarket or seaside.

Go on a texture/touch treasure hunt around the home or garden. Try to find objects which are soft/smooth/hard/ lumpy/ rough/warm/cold/wet/dry etc. If you have post it notes you could make labels for the items.

Set up a feely box or bag to hide items inside and test each other to describe the item and identify it.

Try a taste test with different flavours of crisps or different foods. You could use a blindfold to make it more exciting.

Sit very quietly either indoors or outside and try to remember all the sounds you have heard. You could sort them into natural sounds and manmade sounds.

This episode of 'Let's Go Live' has lots of ideas for exploring your senses.

<https://www.youtube.com/watch?v=59WteJbrykY>

Technology Challenge



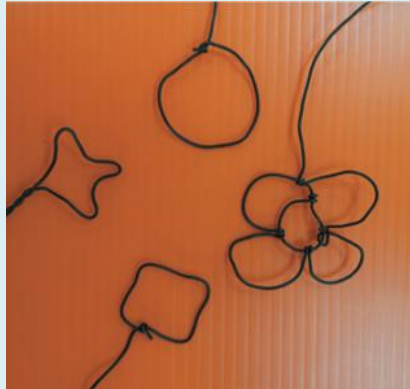
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Building Shapes with Bubbles

What shape is a bubble?

Bubbles are usually spherical. This is because the shape of a sphere uses the minimum surface area to enclose the maximum volume.

Try using different shaped wands to test whether or not the resulting bubble is always spherical. Make your bubble solution using a mixture of washing up liquid and water. This is a good chance to also explore how much washing up liquid to water mix makes the best bubbles.



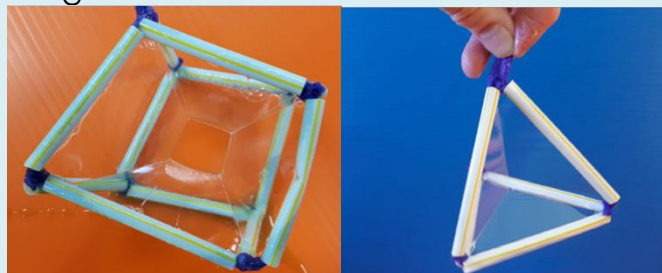
Different shaped wands made from garden wire

What happens if we build 3-D Shapes?

You will need:

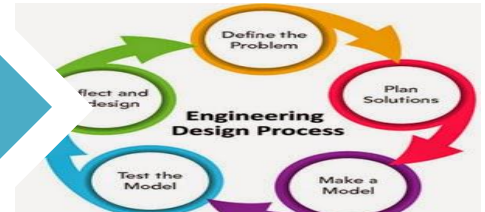
- Straws
- Pipe cleaners / string / garden wire
- Soap solution

Build 3D shapes using pipe cleaners and lengths of drinking straw. Again, the soap solution forms a film with the smallest surface area possible, but this time, the shape of the frame means that a sphere is not an option, so we get the results shown below.



What other shapes can you make?

Engineering Challenge



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Exciting electricity

Watch this [Youtube story read-aloud of the book 'Oscar and the bird. A book about electricity.'](#)

We use **electricity** for lots of things every day. **Go on a hunt around your home... How many things can you find which are powered by electricity?** Make a list, take photos or draw what you find!



Electricity is the flow of negative charges and it can be very dangerous. Static electricity is the build up of negative charges in one place on the surface of an object which can't move until they have a path to flow to the ground. This is why you sometimes get a shock on a sunny day when you touch your car handle. You are acting as the route to the ground for the static electricity. We can carry out some simple experiments to explore static electricity safely as the charge in these activities is low.

1. The balloon experiment (Resources: balloon and mirror)

Blow up a balloon and find someone in your home with long enough hair to brush or comb (or use a mirror if you want to do it to yourself!) Rub the balloon on your head and see how it makes your hair stand up on end? You can also try to stick the balloon to a wall after rubbing it on your head and see how long it will stay up for!



2. The carpet experiment (Resources: socks and carpet)

Wearing socks, drag your feet across the carpet and then touch something metal like a door handle. If you turn off the lights, you might be able to see the shock of static electricity!

3. The water experiment (Resources: water tap, comb, wool)

Turn on a tap to a gentle flow. As it is running, use a comb to comb through your hair or rub a balloon on a piece of wool. Next, hold the comb/balloon close to the water and watch as the water tries to move towards the comb!



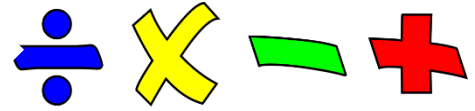
4. The cereal experiment (Resources: string, circular cereal e.g. Cheerios, balloon, comb)

Tie a piece of cereal to an arm length piece of string. Tape the other end of the string to the table. Next rub a balloon or run a comb through your hair or over some woolen material and place it near the cheerio. Watch as the cheerio swings towards the balloon / comb.

5. The rice crispy experiment (Resources: balloon, rice crispies)

Inflate a balloon and rub it on your head for a minute. Pour a small amount of rice crispies on the table and place the balloon close to the cereal. Watch as the cereal sticks to the balloon!

Maths & Numeracy Challenge



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What are the Chances?

It is good to develop children's understanding of chance and uncertainty – how likely or unlikely something will happen.

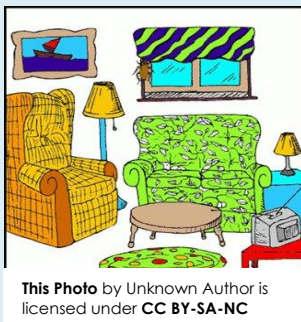
Let's play a game of corners with a difference and an added bonus!

Prep

1. Choose 5 specific places in your house (e.g. the couch, my bed)
2. Write the names of each of these 5 places on separate piece of paper ("cards").
3. Players should have 10 items/"lives" (10 coins/10 pencils/10teaspoons etc)

Play

4. Ready Steady Go! – Players can now go to one of the 5 specific places identified – follow them (feel free to use music like you do in the game "Corners").
5. Now using the cards
 - 5.1. Discuss the places on the cards – think about where they are – "Do you think I will choose the card with the place where you are?"
 - 5.2. Choose a card.
 - 5.3. It is where you are? If yes, give over one of your lives. If not, keep all your lives.
6. Repeat until all "lives" are gone.



Literacy Challenge



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Giving Instructions

This week we are going to be giving clear instructions.

Choose an activity which you do often. It could be something like putting on your shoes, tidying away a game, making your bed or making a jam sandwich.

Tell someone else how to do your activity one step at a time. Try to use the words first, then and next. The other person should now be able to do your activity just as well as you.

Try to think of other fun activities you can give instructions for such as brushing your teeth and washing hands.

Now let's try to make it harder by giving instructions for a drawing.

Describe how to draw an animal such as a cat or a snake. Give you instructions one at a time and try to make them really easy to understand.

This funny clip of a family making a sandwich shows us how sometimes our instructions are not as clear as we think!

<https://www.youtube.com/watch?v=FN2RM-CHkul>



Health & Wellbeing Challenge

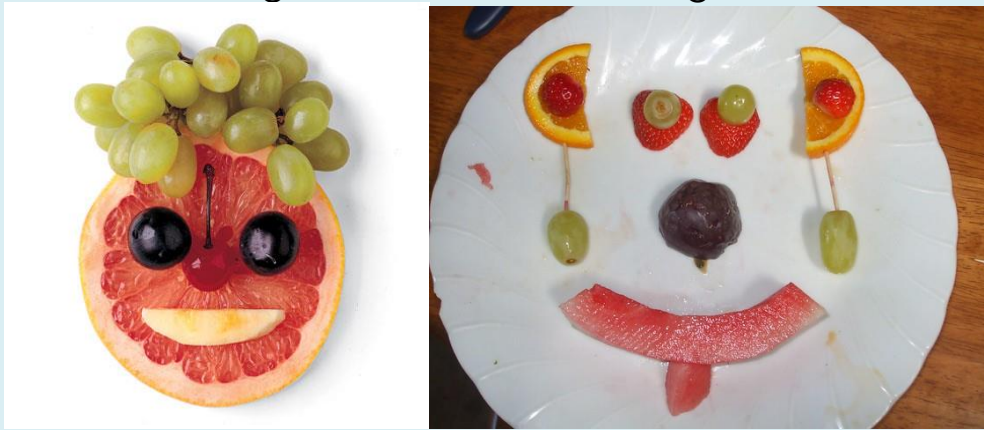
Hey, hey! Five a day!

Eating a healthy, balanced diet is really important. Have you ever heard of eating your **5-a-day** before? It is important to try and eat **a range of different fruit and vegetables** each day.

[Watch this video](#) of [Barnaby Bear](#) singing a song about eating 5-a-day. It shows lots of pictures of different fruit and vegetables. **How many can you remember? Which ones do you like and which ones don't you like? Why?** Find all the fruit and vegetables in your kitchen and sort them into two piles showing your likes and dislikes. You could use fresh or tinned fruit and vegetables.



Now use the fruit and vegetables you have found to create a piece of healthy artwork inspired by the artist [Giuseppe Archimboldo](#). He created the faces of people made out of fruit, vegetables and other things too!



You could also have a go at **improving your cooking skills**, by following [this recipe](#) for a 'Perfect Plant Salad' to practice **snipping, grating and slicing**.

Finally, learn [this song by Sticky Kids](#) about eating your five fruit and veg each day. Join in with the actions!

Social Studies Challenge



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Good Citizen Posters

There are lots of people who help us at home, school and when we are out and about in our local community. Lots of people are helping each other and looking out for one another during this tricky time. But what can we do to help?!

Ask yourself what you can do to help others. It could be helping someone at home by doing your schoolwork when you're asked or tidying your bedroom if you need to. Do you go outside and clap with your neighbours for the NHS?

- How can you help people at home?
- What can you do to take turns in school or at home?
- How can you show respect for people in the community?

Can you make a poster that shows ways to be a good citizen at home, in school, or in the community?



Screen shot from Twinkl resource

Expressive Arts Challenge

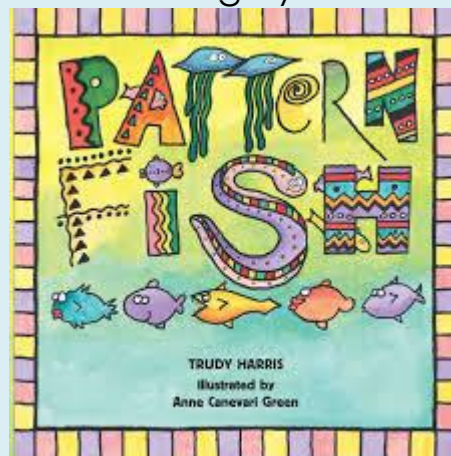


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Fish Patterns

In nature animals have some wonderful patterns and designs.

Why don't you watch this video of a book called "Pattern Fish" by Trudy Harris to get some ideas and inspiration then design your own pattern fish?



https://www.youtube.com/watch?v=7_mqVCewsYA

Task: Can design your own pattern fish?

Here are some fish (and seahorse) outline ideas – maybe an adult could draw some of them for you and then you could add the pattern?

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