

Science Challenge



Floating and Sinking

Activity

Collect a selection of toys and objects which will not be damaged by being put in water. Put some water in a basin or bucket. A clear plastic box is great so that you can see through it.

Test the toys and objects by placing them carefully in the water and watching what happens. Begin to make guesses about whether they will float or sink before testing them. Talk about why they float or sink. Possibly look at where they sit in the water- on top, just at the surface, at the bottom.

Sort the items by whether they were able to float or sink. Talk about what they are made from, size, shape.

Next Steps-

Fruit like apples and oranges can give you surprising results. If you have an orange try testing it with the peel on and then peel it and test it again.

Make a boat out of the orange peel or some paper or foil. You could use plastic tubs or pots as boats. Create a game of taking items from one side of the “pond” to the other using the boats.

Technology Challenge



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Plastics

Resources

- A selection of plastic bags
- Paper/card – Re-use the cardboard from a cereal box or similar
- Pen
- Scissors
- Iron
- A sheet of baking paper

Task

1. Draw as many shapes onto the plastic bags as you can fit and cut them out using scissors.
2. Place the cut out shapes onto the cardboard to make a picture.
3. *Ask an adult for help*
 - Place your picture under a sheet of baking paper.
 - On a medium temperature, iron over the top of the baking sheet and down on to your picture.
4. The plastic shapes will melt together to create your final picture.

Engineering Challenge



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Teddy Trouble!

Teddy has a problem – his chair has broken and he has nothing to sit down on!

Challenge: Can you help him by designing and building a new chair?

Using materials you have at home, build a chair for one of your teddies.

Make sure they are comfortable!

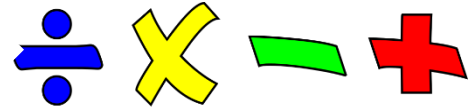
You could use toys like LEGO or building bricks or you could recycle old boxes and bottles.

Test it: Does teddy fit in the chair comfortably?

Improve it: Could you add any special features to make teddy's chair even better?



Maths & Numeracy Challenge



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What shall I do? And when?

Learning at home is a very different experience from Learning at school. There are for more things to do and more distractions.

Currently our learners' health and happiness are of most importance.

To help things and reduce potential anxiety we suggest making a **visual timetable** together with your child(ren) to help structure each day and follow routines; just like at school/nursery. Remember not every minute needs to be timetabled – keep thing relaxed.

A selection of templates are available [here](#) but why not make your own using whatever resources you have. They could be displayed on the back of a door each morning and removed when completed, could be pegged up on a string washing line – whatever works for you.

Creating and Filling in a Daily Calendar (like the one below) will be a good starting activity in the morning – thinking od the day of the week, the month, the season and looking at the weather.



Can you Sing the Days of the week? Here are some songs to help you -

<https://bit.ly/3dnHixg> - link to Youtube

Can you Learn the Months of the Year – to the tune of “Three blind Mice”?

January, February, March,
April, May, June,
July, August, September,
October, November, December.

These are the 12 months of the year.

Now sing them together so we can all hear.

How many months are there in a year?

Twelve months in a year.

Three blind mice.

Three blind mice.

See how they run.

See how they run.

They all ran after the farmer's wife

Who cut off their tails with a carving knife

Did you ever see such a sight in your life?

As three blind mice?

Literacy Challenge



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Talking and Listening with Rhyme

Row Row Row Your Boat
Row, row, row your boat
Gently down the stream
Merrily, merrily, merrily, merrily
Life is but a dream

<https://www.youtube.com/watch?v=ZcPS09kEpSI>

Learn the rhyme and clap or wave along in time with it.

Talk about the rhyme -stream rhymes with dream. Can you think of other words which rhyme? (team, seem, scream, beam, theme)

Use this to try finding rhymes for a different word such as hat- bat, cat, sat etc

Can- pan, ran, man, fan...

Boat- float, coat, goat

Play an odd one out game

Say 4 words, 3 should rhyme but one is different eg. “cat, bat, jump, pat”

Share a story book that uses rhyme such as Duck in a Truck by Jez Alborough

https://www.youtube.com/watch?time_continue=1&v=pEEjSXyk7jl&feature=emb_log
[o](#)



Health & Wellbeing Challenge

And relax...

Mindfulness is about focusing on the present, noticing your physical and emotional responses as well as your connection to other people in your surroundings. There are many benefits for children in the early years spending time being mindful; including increased attention spans, being calm and being more aware of their senses.

Top tip: Do something energetic beforehand to help alleviate the wiggles!

Have a go at one of the **CosmicKids yoga** videos on Youtube:

<https://www.youtube.com/user/CosmicKidsYoga>. They are a combination of yoga, mindfulness and relaxation techniques all in one through different stories.

Have a go at these mindful activities;

- 1. Cloud spotting:** lie down outside or look out a window and look at the clouds (you will need a partially sunny day for this!) Talk about what shapes you can see and how the clouds change as they move along.
- 2. Balloon bubbles.** Blow up some balloons and play the 'don't let the balloon hit the floor game' but instead of racing around to stop them landing, explain they need to move slowly and tap them lightly so they don't pop!
- 3. What can you hear?** Lie down and stay silent for one minute. Try to hear as many different sounds as you can. Talk about what you could hear.



Social Studies Challenge



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Outdoor Scavenger Hunt

You are going to explore your surroundings in your local area. Try this in your garden or when you are out for a walk doing your daily exercise.

On your scavenger hunt you are going to collect all the following items in a bag or basket. When you are done, remember to put everything back where it belongs. (Why not split the hunt up over the 5 days of the normal school week?) Good luck!

- (1) 5 leaves that look different
- (2) A stick that is longer than your hand
- (3) A rock with spots on it
- (4) A flower
- (5) A flat rock
- (6) 10 blades of grass
- (7) Something you love to play with
- (8) Something you can recycle
- (9) Something that is brown
- (10) Something that is heavy
- (11) Something that is very light
- (12) Something that needs the sun to live
- (13) An item smaller than your thumb
- (14) Something that starts with 'M'
- (15) Something that smells good

Expressive Arts Challenge



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Dance - “Simon Says”

Adults need to take part and be the leader until the learners have got the hang of the game.

An old favourite is playing Simon Says which can be done as a straightforward listening task but because we all need an extra reason to smile – let's make it into a dance and play the game to music

How do you play Simon Says? This game is really simple. Here are the basic rules:

- One person is chosen to be Simon
- Simon gives a command
- Players must only obey the commands that start with “Simon says”
- If you follow a command that doesn't begin with “Simon says” you are out

Example Commands:

- Simon says hug yourself
- Simon says touch both elbows at the same time
- Simon says touch your right knee with your left hand
- Simon says fold your arms
- Simon says crisscross your legs
- Simon says high five the person next to you
- Simon says touch your left shoulder with your right hand
- Simon says wave your arms above your head
- Simon says twist from side to side
- Simon says point to your toes
- Simon says touch your elbows
- Simon says touch your ankle
- Simon says touch your left shoulder
- Simon says tickle your armpit
- Simon says touch your right knee

To extend this you can add the number of times each command should be done “Simon says touch yours head 5 times”