

P1 Topic Grid- Science

Below are some activities linked to some of the topics you would like to learn about ☺ Please feel free to pick and choose.

SPACE

Planets

Listen to the song below

<https://youtu.be/7t099KIWVVs>

Can you make up your own rhyme or song to help you to remember the planets?

What is your favourite planet?

Can you draw and label it?

The Moon

The moon is a large natural object that orbits, or travels around, Earth.

After the sun it is the brightest object in the sky.

Have a look at more cool facts about the moon→

<https://youtu.be/B-b4XvuQo1Y>

Some activities for you to try out ->

1. Make a moon rock

<https://thecraftingchicks.com/diy-moon-rocks/>

2. Make a Telescope-

<https://www.optics4kids.org/classroom-activities/10-15/make-a-telescope>

Rockets and Astronauts

Storytime from Space

Listen to the story

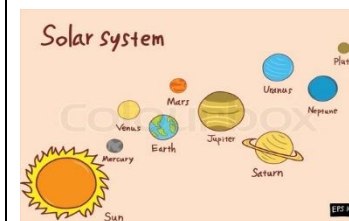
<https://youtu.be/9wV8yw7iV8w>

Can you design a new rocket or a space suit?

What will it look like?

What parts will you add?

You might need to look online to get some ideas to help you.



HUMAN BODY

Human Body

https://www.youtube.com/results?sp=mAEB&search_query=peek+aboo+kidz+human+body

Explore different parts of the human body with the help of Dr Binocs. Using what you have learned about the human body, can you stick the missing organs onto the body? (See the Human Body page in Files)

The Senses - Check out Dr Binocs.

<https://youtu.be/q1xNuU7qaAQ>

Can you remember all the senses that Mrs Dawson and Ms Breen taught you?

1. Touch- Make a mystery feely box- add items to a box and put your hand in to try and describe what textures you feel.
2. Taste- With an adult try 5 foods (blindfolded) and guess if they are sweet or savoury.
3. Smell- Ask an adult to put 5 different smells in 5 different cups/containers and see if you can guess? Take turns and challenge someone in your family.
4. Sight/ Hear - On your daily walk list all the things you can see and hear.



GEMSTONES and CRYSTALS

Crystal Needles and Rock Candy- I love the idea of recording what happens during these experiments. Remember you do not have to write down you could draw pictures to record what you see ☺

Crystal Needles

Crystal Needles are a great introduction to crystal growing. You can have some delicate, cool crystals going within three hours!

Ingredients:

A cup or small bowl

1/2 cup Epsom salt (magnesium sulphate)

1/2 cup hot tap water

(Optional) a drop of food colouring

Directions:

- Add the ingredients together in your bowl or cup.
- Stir the solution until all the salt is dissolved. There may be some crystals still at the bottom, but that is ok.
- Place the cup or bowl in the refrigerator and let sit for 3 hours.
- You can carefully scoop the crystals out of your bowl or cup to get a better look at them.

Homemade Rock Candy - Sugar Crystals

You may know Sugar Crystals by their other name, rock candy, or perhaps by their most common adjective, delicious! These take a little longer than the Needle Crystals to build, but they are easy enough to do and their taste is well worth the wait!

Ingredients:

- 1 cup water *Food Colouring- Optional
- 3 cups table sugar
- Clean glass jar
- Pencil or butter knife

Birthday Gemstones



January
Garnet
(Lab Corundum)



February
Amethyst
(Cubic Zirconia)



March
Aquamarine
(Lab Spinel)



April
Diamond
(Cubic Zirconia)



May
Emerald
(Cubic Zirconia)



June
Alexandrite
(Lab Corundum)



July
Ruby
(Lab Corundum)



August
Peridot
(Cubic Zirconia)



September
Sapphire
(Lab Spinel)



October
Pink Tourmaline
(Cubic Zirconia)



November
Topaz
(Cubic Zirconia)



December
Zircon
(Lab Spinel)



Can you remember what month your birthday is? Check out the grid and see what birthstone you are?

Miss O'Brien is Topaz and Mrs Burton is Garnet ☺

Task: Can you create a shield/ a sword or a piece of jewellery that has your birthstone in it?

- String or yarn (do not use nylon string)
- Pan for boiling water and making solution
- Spoon for stirring

Directions:

- Tie the string to your pencil or butter knife. The string should be able to hang into your jar without touching the bottom or sides.
- In the pan start boiling the water. You may want to ask an adult for help or let them know you are using the stove, just in case.
- Stir in the sugar one spoonful at a time. You want to make sure there is lots of the solute (in this case sugar) in the solution, but not so much that it does not all dissolve into the solution. If you have some undissolved sugar your Rock Crystals will start building onto those molecules rather than your string.
- Add a few drops of food colouring if you want some colour to your candy.
- Carefully pour the solution from the pan into your clean glass jar. Make sure it is clean, otherwise crystals will build onto those molecules on the jar and not on your string.
- Balance the pencil or butter knife (with the string tied to it) on the lip of the jar and let the string dangle into the solution. Again, do not let the string hit the sides or bottom of the jar.
- Find a safe spot for your jar so it will not get knocked around or exposed to too much dust and debris.
- Check on your Rock Crystals the next day and notice how they are started to take form on the string.
- Whenever your Rock Crystals are the right size for your taste or when they stop growing go ahead and take them out of the jar and let them dry.
- Enjoy their sugary goodness!

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