



DAV PUBLIC SCHOOL RATWAR

Managed by DAV College managing committee, New Delhi

AFFILIATED TO CBSE, DELHI AFFILIATION NO:330160, SCHOOL NO: 65155

Notice Dav Ratwar/SV-2021/ Dated 10.6.2021

Dear Parents,

Greetings from DAV Public school Ratwar ! Hope your family is in good health.

The school goes on Summer vacation from 11.6.2021 to 27.6.2021

The online classes remain off during this period. However, the office and fee counter shall remain open from 10 am to 2.30 pm.

Fee can be paid online as well . For fee related query parents may contact the office in the mobile nos : 9939070930/9123265865/6393369938/9771674899/9472880796.

The online classes resume from 28.6.2021 with same/changed time table as feasible.

Trying Times for all -

Our country is still struggling with the COVID crisis . This has again led to the closure of all the educational institutions in the country .

Once again the normal chores of life have been staggered and stuck . Keep yourselves safe from the killer virus with covid protocol. **Pl.get vaccinated when your turn comes**. Do not believe in rumours about vaccines.

DAV Ratwar team has come forwards to let your wards(Std III and above) tap on the available resources at home and communities to develop hands on experiences and Activity / projects based learning that can be done at home. Activities can generate a flood of curiosity among the children. Summer vacation is the time to engage the kids to develop 'learning by doing', to tilt the balance away from the head heavy theoretical education. A sample of few activities are attached for students to try at home. The other activities /projects given by subject teachers should also be completed during summer vacation and be shared /submitted to subject teachers upon opening of school.However the soft copies/photos with students doing the activity be shared .

Let your child understand the recent changes in the surrounding nature , the technology behind the household items, such as pressure cooker, hair dryer, stapler, bulb etc . Teach them the moral values, share your experiences on dignity of labour . Let's utilise this period to teach your kids about the values of our ancient tradition and ways of healthful living.A few learning by doing activities are given herewith .Let your ward do the class appropriate activities under your support and our teachers' online guidance .

Thanks for your support .

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Team DAV Ratwar

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For Classes III to V

Science Experiments



1. Plant Seeds & Watch Them Grow

Learn about seed germination with this fun science experiment for kids. Plant some seeds and follow the growth of the seedlings as they sprout from the soil while making sure to take proper care of them with just the right amount of light, heat and water. Have fun growing plants with this cool science project for children.

What you'll need:

- Fresh seeds of your choice such as pumpkins seeds, spinach seeds, sunflower seeds, lima beans or pinto beans.
- Good quality soil (loose, aerated, lots of peat moss), if you don't have any you can buy some potting soil at your local garden store.
- A container to hold the soil and your seeds.
- Water.
- Light and heat.

Instructions:

1. Fill the container with soil.
2. Plant the seeds inside the soil.
3. Place the container somewhere warm, sunlight is good but try to avoid too much direct sunlight, a window sill is a good spot.
4. Keep the soil moist by watering it every day (be careful not to use too much water).
5. Record your observations as the seeds germinate and seedlings begin to sprout from the seeds.

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What's happening?

Hopefully after a week of looking after them, your seedlings will be on their way. Germination is the process of a plant emerging from a seed and beginning to grow. For seedlings to grow properly from a seed they need the right conditions. Water and oxygen are required for seeds to germinate. Many seeds germinate at a temperature just above normal room temperature but others respond better to warmer temperatures, cooler temperatures or even changes in temperature. While light can be an important trigger for germination, some seeds actually need darkness to germinate, if you buy seeds it should mention the requirements for that specific type of seed in the instructions.

Continue to look after your seedlings and monitor their growth. For further experiments you could compare the growth rates of different types of seeds or the effect of different conditions on their growth.

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For Classes VI to VIII

Science Experiments

2. How to make a Volcano

What you'll need:

- 10 ml of dish soap
- 100 ml of cold water
- 400 ml of white vinegar
- Food coloring
- Baking soda slurry (fill a cup about $\frac{1}{2}$ with baking soda, then fill the rest of the way with water)
- Empty 2 liter soda bottle

Instructions:

NOTE: This should be done outside due to the mess.

- Combine the vinegar, water, dish soap and 2 drops of food coloring into the empty soda bottle.
- Use a spoon to mix the baking soda slurry until it is all a liquid.
- Eruption time! ... Pour the baking soda slurry into the soda bottle quickly and step back!

How it works:

A chemical reaction between vinegar and baking soda creates a gas called carbon dioxide. Carbon dioxide is the same type of gas used to make the carbonation in sodas. What happens if you shake up a soda? The gas gets very excited and tries to spread out. There is not enough room in the bottle for the gas to spread out so it leaves through the opening very quickly, causing an eruption!

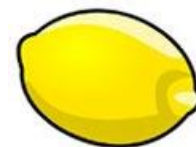


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3. Invisible Ink with Lemon Juice



Making invisible ink is a lot of fun, you can pretend you are a secret agent as you keep all your secret codes and messages hidden from others. All you need is some basic household objects and the hidden power of lemon juice.

What you'll need:

- Half a lemon
- Water
- Spoon
- Bowl
- Cotton bud
- White paper
- Lamp or other light bulb

Instructions:

1. Squeeze some lemon juice into the bowl and add a few drops of water.
2. Mix the water and lemon juice with the spoon.
3. Dip the cotton bud into the mixture and write a message onto the white paper.
4. Wait for the juice to dry so it becomes completely invisible.
5. When you are ready to read your secret message or show it to someone else, heat the paper by holding it close to a light bulb.

What's happening?

Lemon juice is an organic substance that oxidizes and turns brown when heated. Diluting the lemon juice in water makes it very hard to notice when you apply it the paper, no one will be aware of its presence until it is heated and the secret message is revealed. Other substances which work in the same way include orange juice, honey, milk, onion juice, vinegar and wine. Invisible ink can also be made using chemical reactions or by viewing certain liquids under ultraviolet (UV) light.

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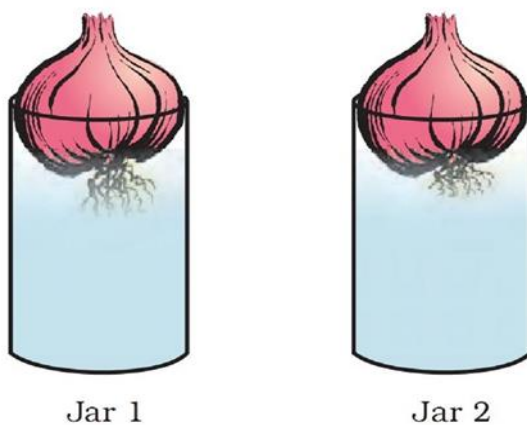
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ACTIVITY- STD IX

4. Activity to demonstrate the growth of plant occurs in certain regions only

(To compare the growth of two onion roots where we cut the tip of one onion root)

MATERIALS REQUIRED: Two onion bulbs , two jars , tap water



- Take two glass jars and fill them with water.
- Now, take two onion bulbs and place one on each jar, as shown in fig.
- Observe the growth of roots in both the bulbs for a few days.
- Measure the length of roots on day 1, 2 and 3.
- On day 4, cut the root tips of the onion bulb in jar 2 by about 1 cm. After this observe the growth of roots in both the jars and measure their lengths each day for five more days and record the observations in tables

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OBSERVATION TABLE:

LENGTH(CM)	DAY-1	DAY-2	DAY-3	DAY-4	DAY-5	DAY-6	DAY-7	DAY-8	DAY-9	DAY-10
JAR-1										
JAR-2										

INFERENCE: _____

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STD VIII AND IX

5. ACTIVITY : Floating Egg Science Experiment



MATERIAL REQUIRED :

- 2 Eggs
- 2 Tall Drinking Glass
- Common Salt
- Tap Water

PRINCIPLE : Archimedes' PRINCIPLE:

If weight of a body $>$ up thrust -, the body will sink in the fluid.
If weight of a body $<$ up thrust -the body will float in the fluid.

More Density of fluid implies more upthrust.

Step-1 -Fill a tall drinking glass about 3/4 full of water

Step 2 – Place the egg into the glass of water and watch it sink...

But this is the Floating Egg Experiment, right?

Step 3 – Fill another tall drinking glass about 3/4 full of water

Step 4 – Add 3 Tablespoons of Salt and stir until combined

Step 5 – Place the egg into the glass and watch it float

INFERENCE(Conclusion)_____

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FOR III TO V



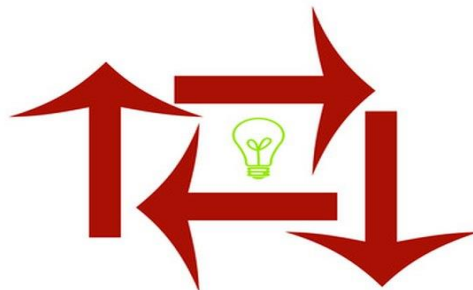
FUN WITH MATHS

1.Sudoku puzzles

Sudoku is a Japanese number puzzle that children of many ages are able to successfully complete and enjoy. According to Math and Reading Help in "Sudoku: a Logic Based Educational Puzzle for Kids," participating in these problem-solving challenges helps children excel in math, logic, and critical thinking skills. Puzzles are available in several difficulty levels so that children can play this brain-stretching game.

What you'll need:

- A piece of paper /Notebook
- Pen/pencil
- Scale



Instructions:

- Take a piece of paper / notebook
- draw the given diagram in a paper or in your notebook
- use may use pencil and pen to draw
- use scale to draw line. refer to the image
- put the numbers accordingly as given in the image
- the goal is to find the right placement for the numbers 1 through 4/6/9 in each row, column and box.
- All four / six/ nine numbers must be used, and none can be repeated.
- Focus on one row that already has one or two numbers solved, and figure out what numbers could possibly fit in the empty boxes. For instance, if a row has the numbers 2 and 3 in place, then the empty boxes would be 1,4,5,6,7,8, and 9, but you'll need more clues to figure out which number goes in each box.

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What's happening?

This explains the name of the game; in Japanese, *sudoku* means something like "numbers singly".

The objective of sudoku is to enter a digit from 1 through 9 in each cell, in such a way that:

- Each horizontal **row** contains each digit exactly **once**
- Each vertical **column** contains each digit exactly **once**
- Each sub grid or **region** contains each digit exactly **once**

3			2
	4	1	
	3	2	
4			1

2	3	4	1
3	4	1	2

	4		1
3			
			4

	2		
	1	4	
		3	

3			
			2
4			1

		4	2	3	
	2			1	
2					3
3			4		1
	5			4	
	3	6	1		

	4			2		1	9	
			3	5	1		8	6
3	1			9	4	7		
	9	4						7
2						8	9	
		9	5	2			4	1
4	2		1	6	9			
1	6		8					7

	9	3	1		5	6	4	
7								5
5		1	2		9	3		7
2								3
	3	6	9		7	5	2	
9								1
3		2	4		8	1		9
6								4
	4	7	3		2	8	5	

1	7		8					9
		6		1				7
					7		5	
		4	9		5			8
	8			6			9	
9			4		3	5		
	5		7					
7				9		6		
8					6		2	1

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			5	4				8
6					2	3		
		7			3			9
	3	1		5				2
	4			3		7	1	
	9		7			2		
		8	6					5
1				2	4			

6	4			1	8			3
	2			5				
				7		1		
						6		7
	8		2		7		9	
5		9						
		7		8				
				2			3	
2			6	3			7	4

5					2		8	
								6
		7	1				5	3
	3		7				5	9
		2		4		8		
7	5				9		1	
	9	8			4	3		
1								
	2		8					5

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FOR III TO V



FUN LEARNING ENGLISH



1. Tongue Twisters for Kids

- She sells seashells on the seashore.
- Flash message. Flash message.
- Mix a box of mixed biscuits with a boxed biscuit mixer.
- A proper copper coffee pot.
- Toy boat. Toy boat. Toy boat.
- Lovely lemon liniment.

2. Adjective Word Scramble

SL NO	QUESTIONS	ANSWERS
01	IBG	BIG
02	HTO	
03	TFSA	
04	EWN	
05	AHCPE	
06	LAET	
07	LDO	
08	MLLAS	

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09	IHHG	
10	WLSO	
11	DKAR	
12	WLO	
13	RSEOSUI	
14	SAEF	
15	RYTEPT	
16	DLCO	
17	PENEXSVEI	
18	RFEFEITDN	
19	RLAEY	
20	GLITH	

The 7th International Yoga Day -2021 on 21.6.2021

This year's Theme : Yoga at home and Yoga with family.

In this regard we are pleased to inform that Yogasan sports association of Jharkhand has given a virtual platform for participation to all of us in the Online Yoga practice sessions from 15.6.21 to 21.6.21 .

Mr Raju Kumar PET of the school shall help facilitate and guide for registration, participation and practice in the online sessions .He will be available at his mobile number: 87895 53966

The link for registration is : <https://forms.gle/3LKiW7QFjffH9VKu9>

All the students, parents , teachers and staff are expected to register online (free Registration) and utilise the Summer vacation for your health and wellness through Yoga.

All participants shall be awarded participation certificate by the association.

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