

LAB LINES

OFFICIAL PUBLICATION OF THE LABORATORY TECHNICIANS' ASSOCIATION OF VICTORIA

Editor: Jenny Emery

Volume 44 | 2024 | Issue 1

H₂O

eco

- CSI Deceased Body Sim
- DIY Fire Tornado
- Playdough Recipe

*Meet the MGS
Lab Animals!*

SUSTAINABILITY CLUB

“Don’t worry, we’ve seen worse!”



The envirostore.com.au website has a special “For Schools” section where you will find some handy downloadable materials addressing spills, banned chemicals, the GHS and more and you can enter details of your chemical waste online for a disposal quote. Michael Pola’s LABCON and STAV presentations from 2019 are also available.

Don’t forget, we can supply compliant containers for consolidating your liquid chemical wastes, and we pack all the chemicals for disposal ourselves and we will take everything. We are happy to have a look at your lab, prep room and store and offer suggestions on compliance and good lab practices – this is a free service for our customers.

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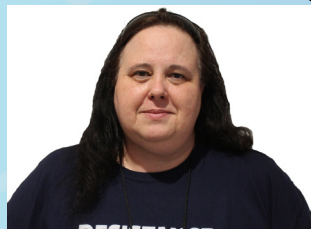
INTERESTED IN LAB TECH RELIEVING WORK?

Maybe you are part-time, or retired, and would like a bit of extra lab time? If so, please put your name on the LTAV Relievers List! You get to specify how far you would like to travel and what days you are available. If a school needs someone and you fit the criteria, they will then contact you. If this sound like you, or someone you know, please email Maeve, LTAV Relievers List Officer: relievers-list@ltav.org.au or for more information, visit <https://ltav.org.au/relief-laboratory-technicians/> or scan the QR Code >>>



PRESIDENTS' REPORT

Mary Jones



TERM 1, 2024

Welcome to Term 1, which will probably be close to over by the time that you read this. I hope the year has started off well for everyone, despite the trying heat at times. I am new to this position and hope you will bear with me, while I get up to par with all the tasks required of me. If anyone should need to contact me directly, please do so on president@ltav.org.au. I wish to thank Geoff Gleadall for all the years that he has served as President and for encouraging me along with Marcia Rogerson to step up into this role. I am going to give this my best effort.

A friendly reminder because this edition will be going out around the time that memberships are due to be paid, which is 30th April. Please renew your membership. If you have any questions regarding renewing it contact our membership officer, Simone, on membership@ltav.org.au. In addition, I would like to add, to get the reliever list or become a reliever, you should check out our website (www.ltav.org.au). There is a nice new page all about this, as Maeve has taken over the handling of the reliever's list. I welcome Marcia Rogerson as our Vice President and Rosy Mullapudi as our Secretary. I would also like to welcome Naomi Peters and Danielle as new members of the committee.

This year I want to improve communication between the committee and the membership. I would like to see new faces coming onto the committee in the future. Let take this opportunity to make our profession better through a blend of new and old. I would like to also thank Sheree Baker for doing just that by staying on as a general committee member and offering her support to Rosy in her new role.

Mary
LTAV President

FROM THE EDITOR

Jenny Emery



Hello 2024 !

You may have noticed a change on the front cover – I've opted for "Year:Issue X" instead of a specific month reference.

This tweak aims to streamline the magazine's timing and alleviate the frustration of perceived delays.

As Editor, my commitment is to deliver four issues annually.

Your contributions are welcome year-round, and once I gather enough material for an edition, it will be published.

Please be aware that the delivery of the fourth issue may experience delays due to committee transitions post-AGM, and the closure of schools for summer break.

The first issue of the year also poses particular challenges as we all transition from holiday mode to professional mode, all whilst I juggle tight deadlines and find myself begging for publishable material.

For submissions or suggestions for future editions, please email your text (Word, email, or PDF) and photos (JPG or PNG) separately to:

jennifer.emery@education.vic.gov.au.

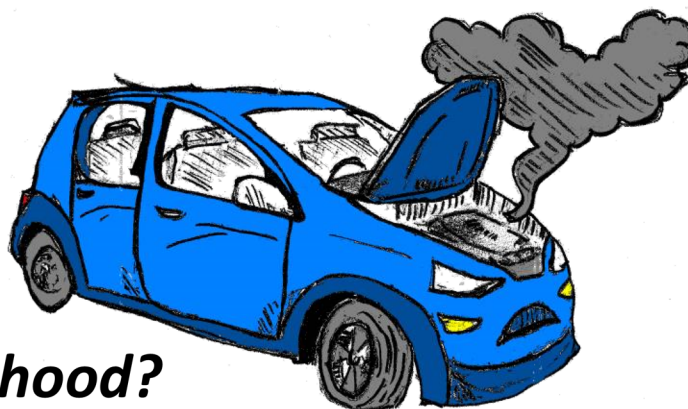
Your contributions shape LabLines into the informative magazine it is – created by technicians, for technicians.

Thank you for your continued support.

Thanks!
Jenny
LTAV Lablines Editor

PRINCIPLES and PRACTICE

FOR EQUIPMENT REPAIRS



Is this a fume hood?

**I wouldn't know because I don't fix them,
but I'll try to fix nearly everything else.**

Remember School Scientific Equipment Repair is my speciality.

So give me a ring or drop me an email.

Email: harvey@principlespractice.com.au, Phone: 0459 768 392

Lablines 2024 Submission Deadlines:

Issue #2 : 10 May

Issue #3 : 10 August

Issue #4 : 10 November

Please be aware that content capacity may be reached before this date

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No responsibility is taken for the results of any experiments published in "Lablines" or that may be replicated elsewhere. Risk assessments should always be carried out before attempting the same.

HINTS & HACKS LAB

How To Make A Dead Body for CSI / Forensics

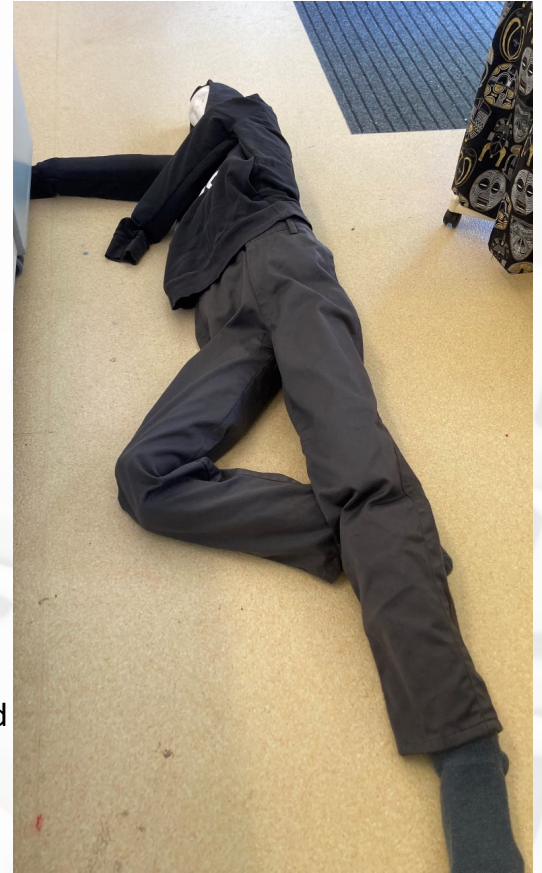
- submitted by: Leonie Leishman, Cranbourne East SC

Equipment

- 1 Pillow (cheap, anywhere)
- 2 Pool Noodles (Kmart, Reject shop)
- 2 pair of thick black tights (supermarket)
- 1 polystyrene head (Spotlight \$15)
- 1 WIG (op shop)
- Set of clothes (op shop)

Assembly:

- **Cut your pool noodles into lengths for two arms and two legs. You will have pieces FOUR of each size, so 'IT' has moveable joints.
- **Stuff the noodles into the tights, tie a knot for the knee and elbow where appropriate to make moveable joints
- **Stretch a pair of tights over each end of the pillow, legs at the bottom, arms at the top.
- **Cut a hole in the crutch of the tights where the polystyrene head will fit, position this from the bottom. (! If you do it over the whole head you will destroy the tights and "IT's" head will fall off !)
- **Place the wig on the head and use some map pins to keep in position.



As you can see by the blood, he has been stabbed, shot and hit over the head.

Clean up: wash the clothes to remove blood, put the head in the dishwasher to remove blood.

Storage: Folds up and fits into a fruit box or any other box you can find to size.



HINTS & HACKS LAB

Pipe Cleaner DNA

- submitted by: Leonie Leishman, Cranbourne West SC

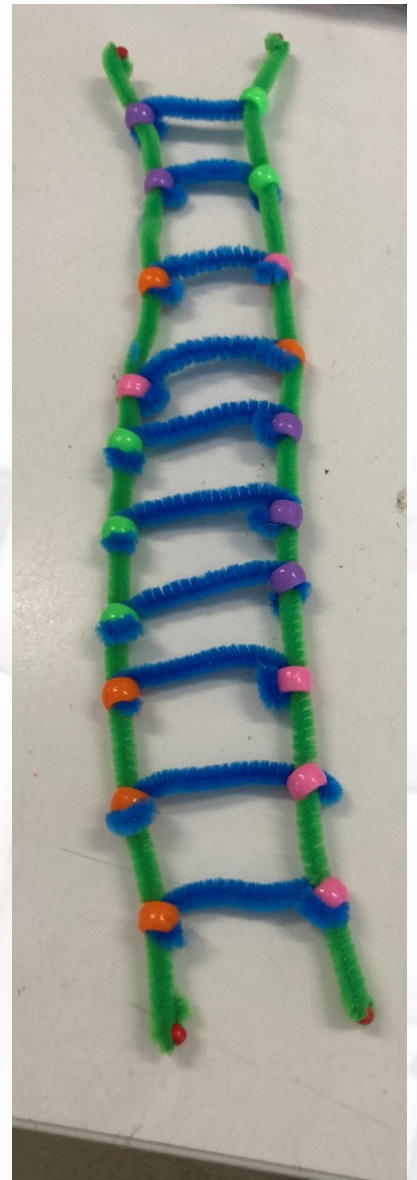
Equipment

Bag of Beads Spotlight \$7.80 (approx. 900)

Red Seed Beads Spotlight \$ 7.80

Pipe Cleaners (Chenille) 4 per student \$ 6.20 (pk 100) x 2

This should be enough for two classes.



No-Cook Playdough Recipe

- shared by Lauren Graham on LTAV List

Ingredients:

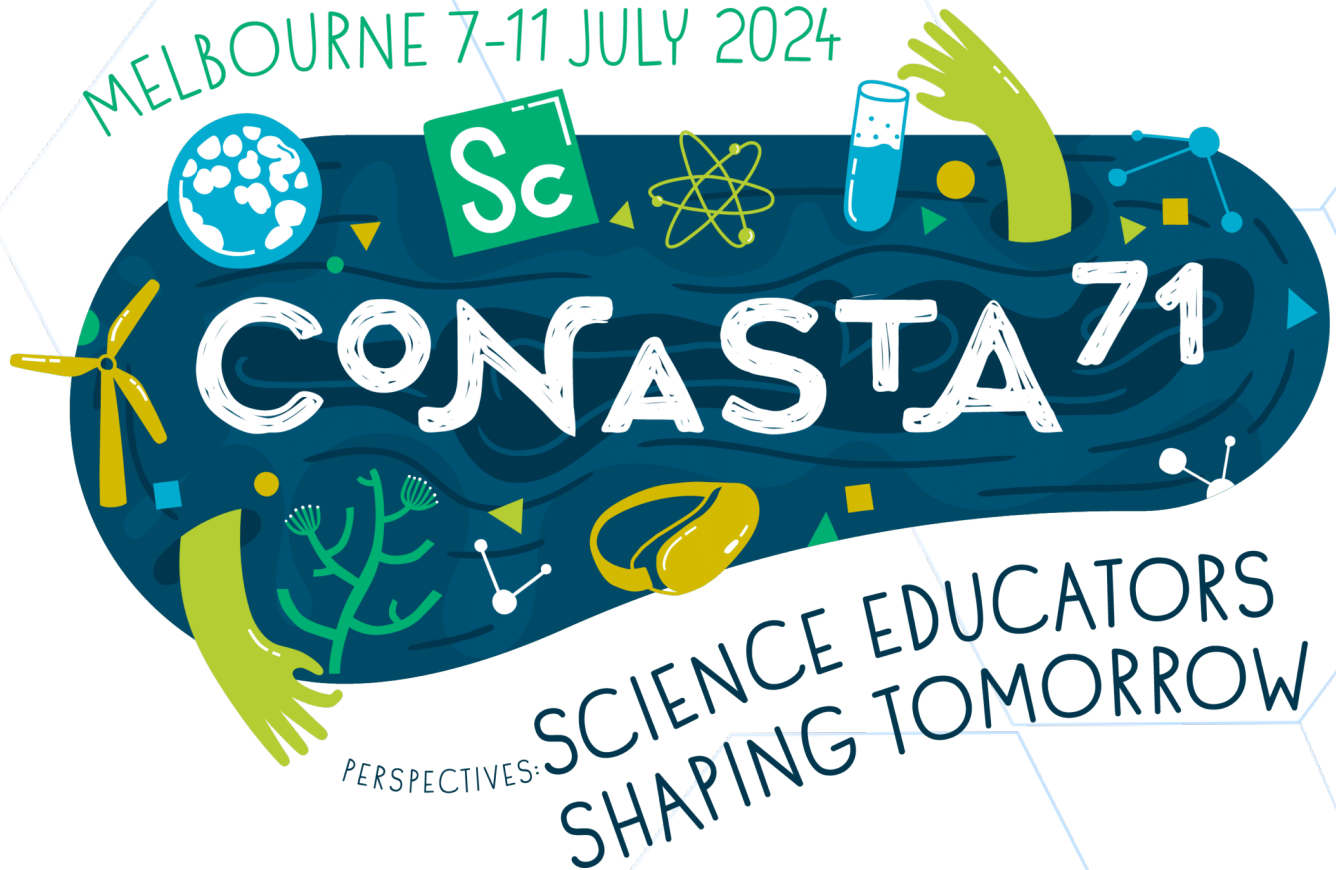
- 2 cups plain flour
- 1 cup salt
- 1 tbs oil
- 1 cup cold water
- 2 drops liquid food colouring

Method:

- 1) Combine plain flour and salt
- 2) Add water, food colouring and oil
- 3) Mix until ingredients are combined
- 4) Knead well
- 5) Store in the fridge once made



MELBOURNE 7-11 JULY 2024



Conasta71 will be held in Melbourne from July 7 – 11.

This is the National science teacher and technician conference which travels around the country on a rotating basis.

This year it is in Melbourne so it is a great opportunity to get to experience 4 days of science without having to travel interstate.

Conasta is a good way to have teachers and technicians sharing sessions and building connections between teachers and technicians. I believe that we are all part of a team aiming to get the best scientific literate students possible at the end of their education.

Cost are not finalised, but there will be a good rate for technicians so book mark the dates and put in your request to the PD department.

The call is out for the submission of abstracts to present session for the conference. For more informatin, use the QR Code below, or vis-
it <https://stav.org.au/conasta-71-call-for-abstracts>

We would love to hear what things you might be able to share with other technicians and teachers.

Dale Carroll/Geelong College/LTAV SETA Rep





A reminder to sign up for Science ASSIST.

Science ASSIST is a national online advisory service for school science educators & technicians & offers on-demand advice re: school laboratory safety, management, & design. It is a great resource for a large range of topics.

Here is a snapshot of some of the areas covered with some questions that have been asked and answers given by Science ASSIST Experts.

Refine Results

Expert Answers

☒ Only show questions with expert answers

Year Level

- Any -

Area of study

☒ Science as a Human Endeavour

☒ - Nature and development of science

☒ - Use and influence of science

☒ Science Inquiry Skills

☒ - Communicating

☒ - Evaluating

☒ - Planning and conducting

☒ - Processing and analysing data and information

☒ - Questioning and Predicting

☒ Science Understanding

☒ - Biological Sciences

☒ - Chemical Sciences

☒ - Earth and Space Sciences

☒ - Physical Sciences

FAQ

Showing 1 - 10 of 243 results

Sort by Most recent

Rocks & Minerals Safety - Streak and Hardness tests: I have a safety question on Pearsons 91 activity "comparing minerals".

★★★★★

Publication Date: 11 January 2024

2 Responses

Answered by an Expert

Storage of Glacial Acetic Acid: I would like to know more on storing Glacial Acetic Acid. Chem supply SDSs says in a well-ventilated area.

★★★★★

Publication Date: 10 January 2024

2 Responses

Answered by an Expert

Crooke's Tube Disposal: I have a Maltese Cross Crooke's Tube that is no longer functioning. The only suggestions from the Physics teachers is the tube has developed a tiny crack.

★★★★★

Publication Date: 23 November 2023

2 Responses

Answered by an Expert

NOTICE: Subscriptions for 2024: Click [here](#) for more information

★★★★★

To subscribe, use the QR Code to the right, or visit:
<https://asta.edu.au/science-safety/science-assist/>

The cost for an annual subscription is \$150 plus GST.

To keep this valuable resource operating (and at a reasonable cost) we need to have many schools subscribe, the more the merrier.

Get onboard and be part of the growth of Science ASSIST.

Dale Carroll | Geelong College | LTAV SETA Rep



SUSTAINABILITY CLUBS - *Does Your School Have One?*

- submitted by Mary L Jones, Keilor Downs College

One of our chemistry teachers, Poppy Katsoulakos, has developed and implemented a new club at Keilor Downs College that is focusing on sustainability.

Poppy spearheaded the club at school, and has also joined the Brimbank City Council Teachers Environment Network. The Brimbank City council is devoted to sustainability and our environment.

February is National Sustainability Month, and the council are hosting a variety of workshops and events.

Poppy has taken things a step further at Keilor Downs by applying for the Climate Oasis in Schools Program offered by Brimbank City Council.

The aim of the program is to design a landscape masterplan that would assist to transform the school into a green and cool climate oasis, thereby improving the school's liveability and supporting local biodiversity.

Poppy prepared a six-page PowerPoint presentation to introduce the students to what the club entails. Does your school already have a sustainability club? This is a noble goal given we must look after our planet. She is inspiring and challenging our students to become “Sustainability Heroes.”

The goals of the club are:

- To reduce, reuse, and recycle water, waste, and energy.
- To connect the community through education about the environment.
- To raise awareness and make a difference towards developing sustainable strategies and practices at our school.

Taking into consideration that all school-based projects will be developed, implemented, and evaluated by the club members, the ideas put forth by and to our students attending the first meeting, which had sixty students turn up for the first ever meeting (which our staff were delighted to hear), included:

- Produce natural hand-made lip balm. Give away then sell. Poppy had made samples and shared with the students. Next was to get the students in to try and make it themselves. Poppy sourced all natural products to go into this and took into consideration allergies and anaphylactic situations. The students are going to investigate variants to the original recipe with adding colouring and scents (still all natural to the lip balm).
- Produce a kitchen garden (Farm to Plate) and grow and connect to the canteen. Involve VCE/VET/VM students to construct the garden beds.
- Create a BYO friendly canteen. On BYO cup day, students bring their own cup for a hot drink to celebrate reusables and receive a fifty-cent discount or go into a raffle to win a reusable ceramic cup. Money can be donated to support a local charity.
- Clean up and recycling projects (swap items)
- Participate in Victoria Container Deposit Scheme. Set up on collection point for students to put in eligible drink containers. Each container is worth a 10-cent refund that we can purchase recycled seating from REPLAS or donate to a community partner.

There are more things that can be looked at, but this is the start of the adventure into sustainability with



our new club within our school. I strongly encourage if you are interested in starting a similar club up at your school to contact your local council. At Keilor Downs College our local council is Brimbank. They sent out a monthly newsletter called The Leaflet, Brimbank Environmental Newsletter. It is easy to sign up for it, I did ages ago and it is where I get items that I post to the list, like the Bug Hunt recently. If you have a club and have other projects going, please write a follow-up article and share, as it can help others find new and more creative ways to help our planet and involve the next generation in learning how to improve daily practices not only at school, but at home.



Natural Lip Balm Recipe:

Ingredients:

- 2 TBSP Coconut oil
- 2 TBSP Beeswax
- 3 Drops Vitamin E Oil

Equipment:

- Double Boiler
(proper or homemade – pot with a metal or heatproof glass bowl on top)
- Hotplate
- Heatproof gloves or oven mitts
- Heatproof mat
- wood stick or stainless spoon for stirring

Procedure:

1. Turn the hotplate on to ensure that it is warmed up properly.
2. Ensure the bottom of the double boiler has sufficient water in it.
3. Measure one tablespoon of coconut oil and place into the top of the double boiler.
4. Measure one tablespoon of beeswax and place into the top of the double boiler.
5. Heat until they have melted and blended.
6. Using heatproof gloves or kitchen mitts, carefully remove the top of the double boiler.
7. Allow to cool slightly for 30 seconds to 1 minute.
8. Add three drops of vitamin E oil to the mixture and stir to blend.
9. Immediately pour into storage container - we use small jars as pictured.

Please note before doing this experiment, ensure no students are allergic to beeswax.

All ingredients used came from Auroma Avenue in Fitzroy. Beverly, who took care of Poppy, has served me the times that I have gone there for consumer science and she has a wealth of knowledge and will also share recipes to help you.

Acknowledgements:

Image taken on Mary's phone of a Lip Balm Tester prepared by Poppy
Top/background image from freepik.com

MIND YOUR HEALTH...

by Jenny Emery | LTAV Lablines Editor | Laboratory Manager, Koo Wee Rup SC

As a laboratory technician in secondary education, your role is instrumental in shaping young minds and facilitating hands-on learning experiences. While your dedication to fostering scientific curiosity is commendable, it's vital to recognise and address the unique challenges you face in maintaining mental well-being within the educational setting.



Understanding the Educational Landscape

Working as a laboratory technician in secondary education presents its own set of challenges. Balancing the demands of curriculum requirements, student needs, teacher needs, and administrative expectations can create pressure and stress. Additionally, the dynamic nature of the classroom environment adds another layer of complexity to your role.

Recognising Signs of Strain

It's essential to be attuned to the signs indicating potential strain on your mental health. These may include feelings of overwhelm, fatigue, frustration, difficulty in managing workload, and a sense of isolation. Ignoring these signs can impede your ability to effectively support teacher's requirements and student learning.

Prioritising Self-Care

Taking care of your mental health is not only beneficial for yourself but also for the teachers and students you serve. Establishing self-care practices such as regular exercise, adequate rest, healthy nutrition, and hobbies outside of work can help recharge your batteries and maintain resilience in the face of challenges.

Seeking Support within the School Community

Building a support network within the school community is essential. Connecting with fellow educators, counsellors, administrators, and technicians who understand the unique demands of your role can provide valuable camaraderie and support. Don't hesitate to reach out for assistance or guidance when needed.

Setting Boundaries

In a profession where the lines between work and personal life can blur, setting boundaries is crucial. Establishing clear limits on working hours, creating designated spaces for work-related tasks, and learning to prioritise tasks effectively can help prevent burnout and maintain a healthy work-life balance.

...MIND YOUR HEALTH

Embracing Mindfulness in Education

Incorporating mindfulness practices into your daily routine can enhance your ability to manage stress and stay present in the moment. Simple mindfulness exercises, such as deep breathing or mindful walking, can be integrated into your workday to promote a sense of calm and clarity.

Advocating for Mental Wellness in Education

As a laboratory technician, you have a unique opportunity to advocate for mental wellness within the educational setting. Encouraging open dialogue about mental health, promoting awareness of available resources, and actively participating in initiatives that prioritise staff well-being can help foster a supportive and nurturing environment for all members of the school community.

Summary

Navigating the challenges of being a laboratory technician in secondary education requires a proactive approach to mental wellness. By recognising the signs of strain, prioritising self-care, seeking support within the school and extended community, setting boundaries, embracing mindfulness practices, and advocating for mental wellness, you can cultivate a fulfilling and sustainable career while positively impacting the lives of students.

Remember, investing in your mental health is an investment in the future of education.



TRAINING COURSES

- Chemical Safety in School Laboratories (1 Day Course)
- Safety in Laboratories and Laboratory Design and Construction Standards Explained. (3 day course)
- Risk Management and Risk Assessment Explained
- Ergonomics and Manual Handling (1/2 day)
- OHS Leadership for Managers & Supervisors

TECHNICAL SERVICES

- Inspections and Investigations
- Review of Management Systems
- Advice on Personal protective equipment
- Risk Assessments
- Safety Policies and procedures





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X-y moveable mechanical stage
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or **\$349** ea



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or **\$399** ea



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Stage clips
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5 year warranty

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or **\$289** ea

BONUS! 10% lifetime discount on future microscope services*. (T&Cs apply)

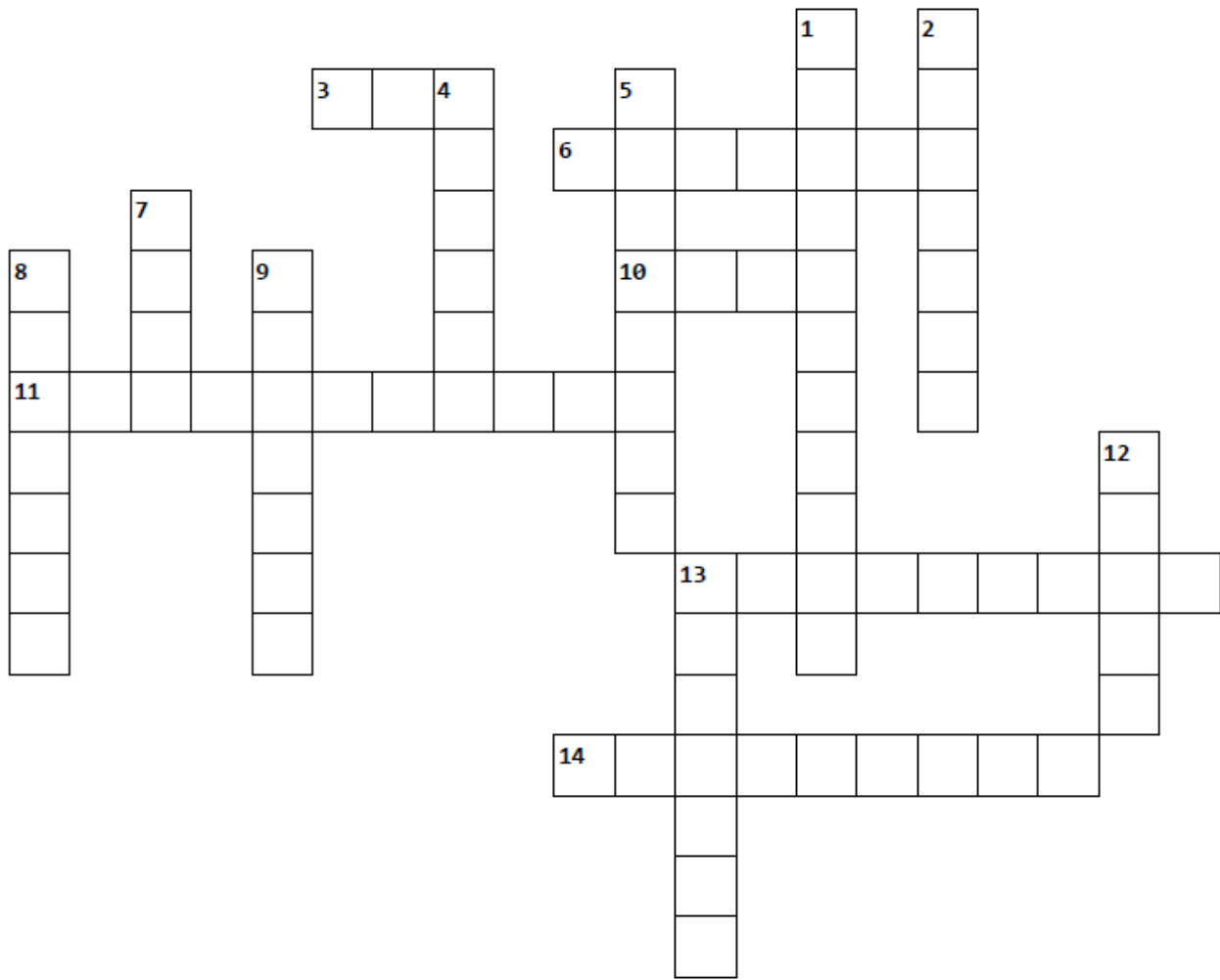
Not sure if the microscope is right for your school?

Contact us to book in our **Free trial!**

Prices exclude GST.



LABLINES 'SCIENCE-ME' CROSSWORD

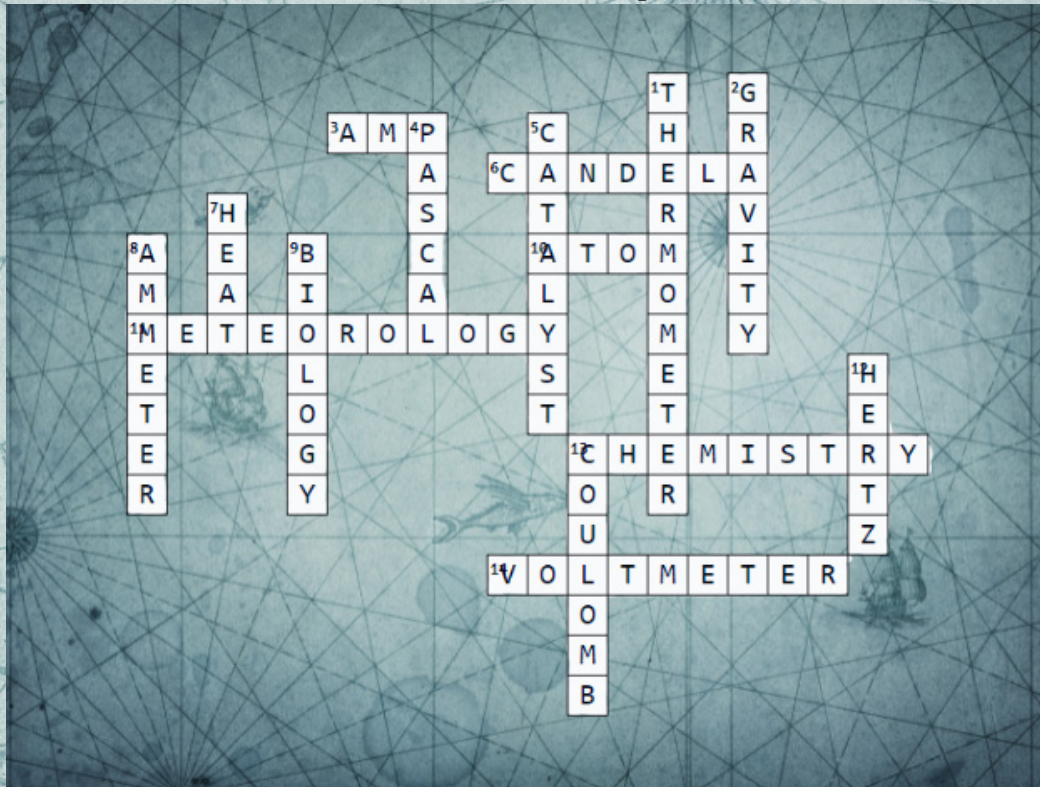


Across

- 3.** Unit of electric current
- 6.** SI unit for measuring luminous intensity
- 10.** The smallest unit of an element that retains its chemical properties
- 11.** The study of the Earth's atmosphere
- 13.** The branch of science that deals with the structure of matter
- 14.** Device used to measure electric potential difference

Down

- 1.** Device used to measure temperature
- 2.** The force that attracts a body toward the center of the Earth
- 4.** The SI unit of pressure
- 5.** A substance that speeds up a chemical reaction
- 7.** A form of energy associated with the motion of atoms and molecules
- 8.** Device used to measure electric current
- 9.** The study of living organisms
- 12.** The SI unit of frequency
- 13.** The SI unit of electric charge



RIDDLE-ME-THIS

1. I speak without a mouth and hear without ears. I have no body, but I come alive with the wind.

What am I?

2. I am taken from a mine, and shut up in a wooden case, from which I am never fully released, and yet I am used by almost every person.

What am I?



THE LAB ANIMALS of MELBOURNE GRAMMAR

submitted by Elaine Wylie, Senior Laboratory Technician, Melbourne Grammar School

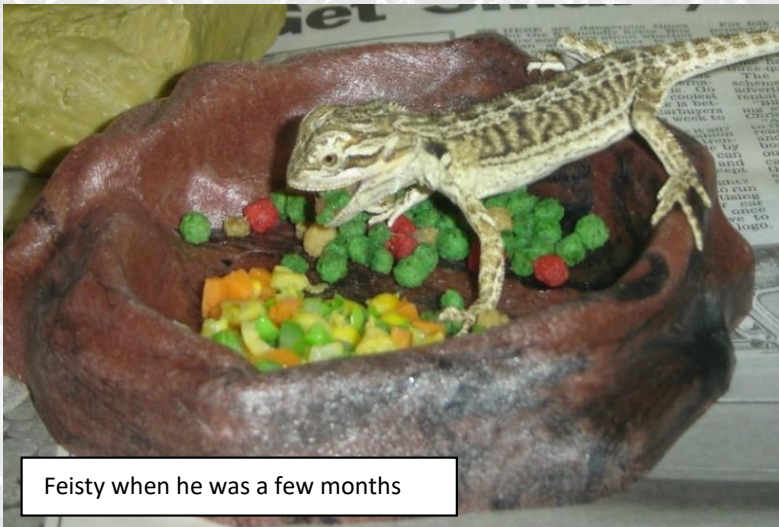
Species: Central bearded dragon

Name: Feisty

Sex: Male

Age: 18 years old

Favourite foods: Loves live crickets, hand fed to him! He likes peas too.



Feisty when he was a few months

Have looked after this guy since he was a little one, he has been with us through three building changes, from old building to portables to new building. His forever home is a double-sided glass enclosure with lots of basking logs, cool logs, and a hammock which he sleeps underneath. Feisty is a sweet guy who loves sitting out on the oval in the sun!



Feisty on the main oval admiring our Science & Technology Hub!



Feisty relaxing on his log, he has a great view of the stairs.

THE LAB ANIMALS of MELBOURNE GRAMMAR

Species: Eastern long-necked turtles

Names: Lenny & Diego

Sex: Male & Female (I think?)

Age: Both 12 years old

Favourite foods: Frozen turtle food (they like variety) and prawns.



Baby turtles still in their travel container from the aquarium shop!

Have looked after our turtles since they were teeny tiny ones and they have also been through three building changes. They now have a double-sided glass enclosure that is set between the wall in the lab, they have great views into the lab watching the boys doing their prac work and out into the atrium area.

Lenny and Diego also love being out on the oval with the grass under their feet and exploring, they are never still.



Lenny & Diego in their new enclosure, they are good buddies.



Enjoying the sun on the oval, they are always on the move!

DIY FIRE TORNADO

submitted by Man Lam, Mount Alexander College

Equipment:

1. Metal mesh rubbish bin
2. A wood turnable (commonly called a “Lazy Susan”)
3. Flexible wire mesh from Bunnings (e.g. fly screen - the finer the better)
4. Two metal cups (source from camping and outdoor shops)
5. One evaporating dish
6. Blu-Tack*
7. Aluminum foil
8. Ethanol or any flammable liquid
9. Sodium chloride, or other salt, such as Strontium chloride if you want to a different flame colours
10. A long stick (e.g. 1m ruler) with a candle or taper attached

How to setup:

A picture is worth more than 1000 words! The next two pages contain graphic instructions.

Things To Note:

- ❑ Use metal mesh bin, not plastic, for obvious reasons!
- ❑ The mesh bin can be bought from officeworks or \$2 shop. Choose the biggest one you can as it is easier to work with.
- ❑ The inner wire mesh serves two purposes : (1) it lets the air in , and (2) it creates a shear surface for the surrounding air to rotate.
- ❑ Make sure the cup is securely stuck on the turntable. Test it first by turn it a few times to make sure it sticks well. If you do not feel certain, you can screw the cup down to the turntable and then use Al-foil to attach the evaporation dish later.
- ❑ This could double as a short demonstration of flame test - use other compounds like Strontium chloride, borate, potassium chloride etc. I stick to using NaCl.
- ❑ I do not recommend using a fume cupboard for this demo as the air currents may interfere.

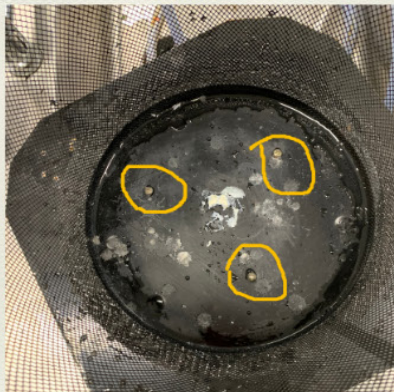
IMPORTANT SAFETY REMINDER!

NEVER refill the dish with the flammable liquid while there is still a fire in it. Remember that a flame might not even be visible at all, so pouring more flammable liquid into the dish could result in serious injury. If you are repeating the demo, make sure you are sure the flames have been fully extinguished. This is also why I mention not to put too much flammable liquid into the dish in the first place.

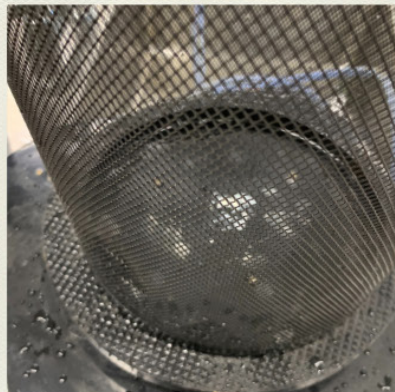
Please be sure to highlight this when performing your own risk assessment prior to carrying out this activity.

Acknowledgements:

1. Thank you for Erika MIELENS from Mindarie Senior College, WA, who posted on the LTAV List and asked how to setup a fire tornado at her school in Oct 2023. Without her, I probably would never put these together.
2. BLU-TACK is a Registered Trademark of BOSTIK SA



1. Use three screws to secure bin to a Turntable.



2. View from outside of bin.
Don't put a screw in the middle!



3. You will need 2 metal cups, or similar - need to withstand heat without breaking



4. An Evaporating Dish is perfect to hold flammable fluid later



5. Add some Blu-Tack to bottom of one metal cup



6. Place Evaporating Dish on top of cup



7. Wrap the dish and cup with alfoil (do not wrap it over the bottom of the cup)



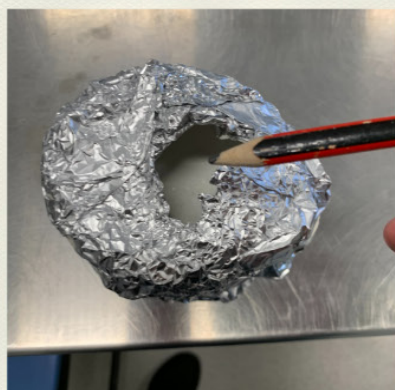
8. From a top view, it will look something like this



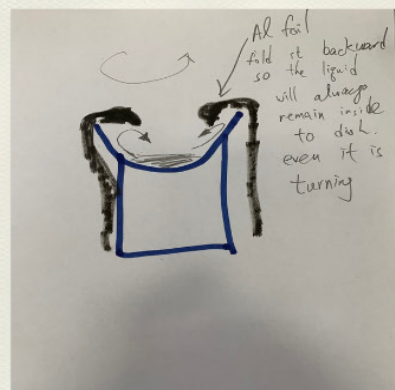
9. Wrap more foil over the top, to look more like this



10. Use a pencil or similar to pierce and shape a hole in the top



11. The hole can be quite large - keep enough foil around the edge so the dish is held in place



12. You can fold the alfoil in such a way to avoid spillage when rotating later



13. The Blu-Tack under the cup will act as an adhesive



14. Attach the cup to the centre of bin



15. Add some NaCl salt (or another salt you have chosen) to the Evaporating Dish



16. Prepare about 5-10mL of flammable liquid



17. Carefully pour flammable liquid into the Evaporating Dish containing the salt.



18. Place fine wire mesh (i.e. fly screen) into bin so that it surrounds the equipment inside



19. Attach a candle or taper to the end of a long stick or 1m ruler



20. Light the taper/candle and use this to set the contents in the dish alight



21. Rotate the Turntable



22. The fire tornado should grow with the rotation



23. When the rotation slows down, the flame will reduce



24. Use a second metallic cup to suffocate the fire and leave in place until fire is extinguished



MEMBERSHIP APPLICATION



2024 LTAV Membership is now DUE.

To renew your membership online, scan the QR Code, or visit ltav.org.au
Any questions, please email the Membership Officer, Simone:
membership@ltav.org.au

Membership is open to laboratory technical staff (including retired technicians) in all levels of educational institutions in Victoria.
Membership is a calendar year – January 1st to December 31st regardless of when the membership fee is paid.

LTAV SHOP - PUBLICATIONS



Three laboratory reference manuals and a conference USB are available for purchase from LTAV:

1. Chemistry Reference Manual + USB, 2008.
2. Biology Reference Manual + USB, 2013.
3. Physics Reference Manual + USB, 2013.
4. Laboratory Management Databases Conference USB, V2, 2009, by L.Geoff Gleadall, Dip.App.Sci.

Further information available via the direct link.

LTAV MAIN WEBSITE



LTAV Inc. is the professional association for all laboratory technicians in schools and tertiary institutions in Victoria, and aims to provide support and professional development in a variety of ways including a forum for problem solving/ideas exchange, regional coordination of locally hosted PD meetings, an annual LabCon conference, and information and news via LabLines - the LTAV official printed publication.

To learn more, please explore our main website.

LTAV POLICIES PAGE



Visit this page for information regarding:

- LTAV rules
- LTAV privacy policy
- LTAV terms and conditions
- The Aims and Objectives of the Laboratory Technicians
- Professional Standards for Australian School Science Laboratory Technicians
- Roles of Committee Members
- LTAV Regions
- Technical Staff in Schools
- The Suzannah Larrat Award Policy
- Distinguished Service Award Policy
- The LTAV List Server
- Laboratory Environment Policy
- Peter Ellis Scholarship Policy
- First Year Membership Policy
- Conasta Scholarship Policy

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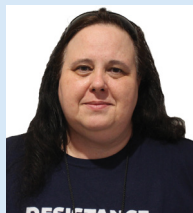
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Riddle Me This Answers: 1. An echo | 2. Pencil Lead

Thanks for playing! If you have a riddle or puzzle you'd like to share in LabLines, please email it to The Editor -
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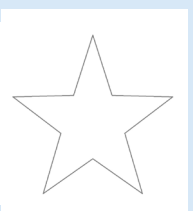
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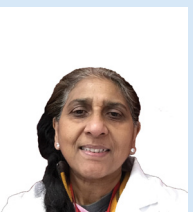
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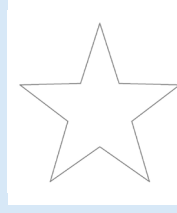
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Please feel free to contact any member of your committee with any queries or concerns. Members are always welcome at committee meetings. Please contact the Secretary to confirm time and location of next meeting if you wish to attend. 2024 MEETING DATES are not yet confirmed.