

THE MSC TIMES

3D Printers, Are They Worth It?

Learn More, pg 2



***Exclusive Interviews**
Miss Leviton Reveals All
and Inside info from Mr
Blanch*



**Turn to page 3 to find
YOUR inner Van Gogh**



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3D Printers, Are They Worth It?

3D printers are machines that can turn a digital design file into a real, solid, 3D object. You create a 3D image using your software of choice (Google Sketchup, Blender, 3Dtin, etc.) and export it as a STL file type. Once that is completed you send it to the 3D printer and watch it weave its magic. The end result is a 3D model of whatever you chose to design. But are these machines worth the cost and effort required to construct these miniature models?

Here at Manly Selective we have 5 3D printers in total, 4 UP Box printers (valued at \$3500 each) and 1 MakerBot (valued at \$5000). All up the cost of the 5 3D printers at Manly Selective is \$19000 and then once you add the other costs of the materials needed to use the printer you start to get an idea of how much 3D printers cost to run.

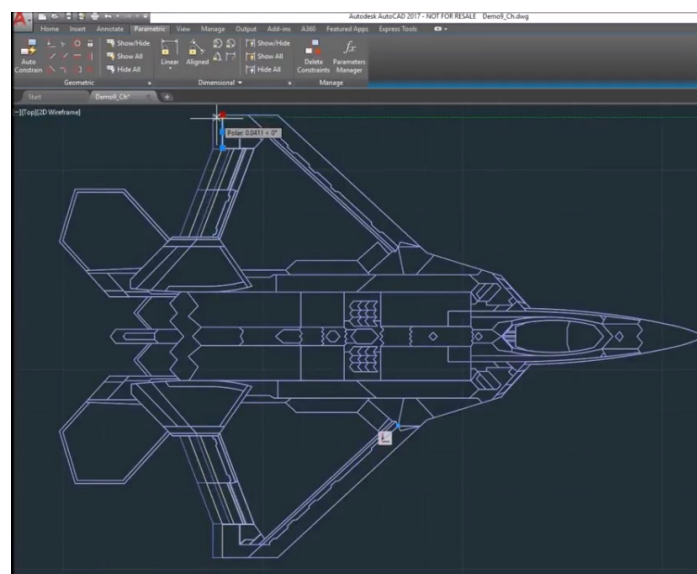
These printers appear to be used 'almost everyday' as Mr Forsyth said in our interview with him. The teachers in the TAS (Technology and Applied Science) block seemed to think very positively about the 3D printers, 'the 3D printers are definitely worth the price' as Mr Forsyth, again, told us in our exclusive interview. 'Never mind the computer on every desktop, that's a given. In the near future, teachers and students will want or have a 3D printer on the desk to help them learn core Science, Technology, Engineering and Mathematics (STEM) principles.' - Forbes magazine on 3D printers in Australian education.

3D printers can be used in the 'real world' jobs and can help students who want a life career in engineering or design. 'Tomorrow's engineers, scientists, designers and problem solvers need the best tools to build their futures. Just about every aspect of the Australian curriculum

system can benefit from incorporating 3D printing.' -Anonymous.

At Manly they use two softwares to create their 3D design files. They use AutoCAD (a digital design and drafting software) and Fusion 360 (a unique 3D CAE and CAD designing software) Both of these softwares are very unique and easy to use (as far as these softwares go) and have great outcomes.

5 3D printers with a total cost of \$19000. They get used almost everyday, but are they really worth it?



AutoCAD design (credit architosh.com)

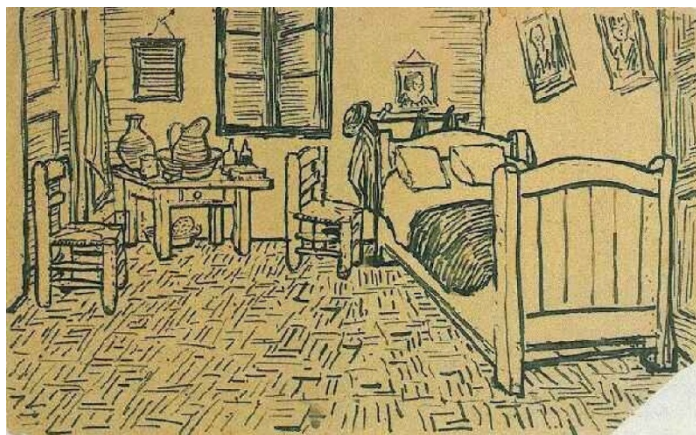
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Tips to Find Your Inner Van Gogh

Van Gogh. One of the most famous and talented artists in history. Want to be as awesome and skilled as him? To be the Van Gogh of NSC? Here's how!

According to a website called Van Gogh Museum, Van Gogh always drew sketches a couple times and then began painting

As you can see, Van Gogh drew lines to help guide his paint strokes, using thick, thin, dark and light lines to help him know what colours go where before painting. An excellent idea in my opinion! It reduces painting mistakes and makes the artwork better.



According to Making a Mark, Van Gogh found a "reed pencil" in 1888, and it changed his style completely. With it, he created some outstanding landscape drawings. This means that if you really want to shade and plan well, you should consider getting a shading pencil! (preferably 4B or 6B) the higher the number, the softer the lead. Soft lead pencils go on the paper easily and don't leave as much as a pencil mark as other pencils. Take in mind that these pencils are harder to rub off and always leave some sort of a mark on the paper.



Van Gogh liked to use similar colours and to layer them on top of each other to create a more realistic look. He mainly liked to use colours close to Prussian blue, Vermillion, Zinc yellow and Viridian green. He usually put the dark colours on the light ones to either make them pop, look 3D, or to be different. So, to be a better artist, you should have a unique style in order to stand out from the other artists and to get noticed!

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TV Shows- Can You Stop

Watching Them

TV shows- can you stop watching them? If you can, maybe you're not watching the right ones. We asked some kids at MSC High school what their favourite TV series was at the moment and we've got some very interesting answers. The question is, will you be able to stop watching them and is it a good idea to keep watching this show? We're here to answer that.

In last place, with a tie of only one vote, was *Stranger Things*, *Riverdale* and *Australian Open tennis*, thanks to Mr. Blanch not knowing that *Stranger Things* was an option, but we still highly recommend these shows as a something new. Being the new team and having to know our stuff, we found these TV shows very good and should make the list.

In 2nd to last we had the *Wiggles*, but we knew that was coming because it's more for younger years and it wasn't going to be the most popular opinion. We still think you should watch it as its great and humorous and always reminds you of your childhood, which a lot of us loved.

Next up we have a tie between *Friends* and *Doctor Who*. These are extremely good shows in our opinion and it is definitely a good idea. *Doctor Who* is an amazing science fiction and *Friends* is a silly comedy about (obviously) a group of friends. They are both very attention grabbing and we're all pretty glad that they made the list.

Then we had the *Simpsons*, which in our opinion should've got more votes as it is a classic, but oh

well. It's really funny and always makes you want to keep watching it! We're so glad it made the list because if it didn't, it would be disappointing.

In 2nd place we had *Keeping up with the Kardashians*, a reality tv show about some diva celebrities known as the Kardashians. They can be stupid, but that makes it all the worthwhile watching. This show is oh-krrr (keeping up with the Kardashians reference).

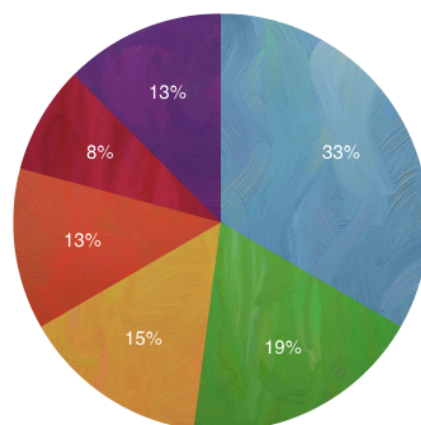
And finally, the most popular vote from MSC, it's not surprising because of how popular it is, is *Rick and Morty*. A comedy about a scientist and his child apprentice as they travel through the universe and be weird. I would highly recommend this as it seems super funny and always good for a laugh.

So those are the top 9 shows in MSC. If you have any questions or your favourite show wasn't here, please tell the *Weekly Pines* to do another story of this with different TV shows. Have a good time binge-watching some of these series, stay interested, and check what you can watch with your parents first!

Top 6 TV Shows

What People Are Watching

● Rick And Morty ● Keeping Up With Kardashians ● The Simpsons
● Friends ● The Wiggles ● Dr Who



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Ms Leviton reveals all

Are you trying out for the school musical? Mrs. Leviton shares her top tips on trying out for lead roles and a little bit about behind the scenes.

We got our reporters on the case to see what she was to say about our 2018 production. Here are Mrs. Leviton's (and now ours) tips and gossip for the little mermaid:

If you have tried out for Ariel and don't know how it went, well, here's what Mrs. Leviton was looking for, and also a handy helper for next year's musical. When we asked her she replied:

"Someone who can make a Disney princess really exciting without being ditzy because the original is amazing, but quite childish and I want our Ariel to be a bit cooler than that, but we should still keep the original lines"

Are you eager to know what the costumes will be like and if their comfy or cool, well we were, and here was her response:

"Artistic and not tacky. We want the costumes to be safe to glide in, we want the audience to know that they are mermaids without putting on obvious flippers"

Are you wondering if Mrs. Leviton really knows her stuff and how long she's has known her stuff for? well turns out she has been head of the musicals Since 2016, but has been working on it since 2014, so the answer to that question is yes, yes, she does.

Do you think you know what to expect from watching the movies, well Mrs.

Leviton came up with some differences to expect in the musical?

"In movies there is a lot more speech and transitions, we replace that with songs in musicals and it turns out to be more than an hour longer"

Musicals normally take a long time to be decided, according to Mrs. Leviton, Here's why:

"It is extremely hard, it takes around 3 to 6 months to choose and then you have to apply which takes longer, and the musical can't be touring. Then it also depends on the students."

We wanted to see what Mrs. Leviton would want to make a musical about and she replied with the response of:

"Everyday stuff that you don't normally think about but made interesting by music. Like the movie Enchanted, how they exaggerate boring details to seem exciting."

Are you already wondering on what the musical will be next year, because we do, but sadly all ideas she has are classified to everyone. Just a hint though, if it's the musical she wants, apparently, she will be dancing around, so watch out.

And finally, good news for all those people who would make a stellar Ariel but have different hair, there will be wigs. You probably already knew that, but just in case you didn't. Good luck, MSC musical auditionees.

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Hospital. Now. Imagine being stuck in traffic for half an hour, still 40 minutes away from hospital, after breaking your arm playing basketball at school. Sirens are blaring in your ears like broken records, worried faces peer down at you in your stretcher, and excruciating pain sears from your arm to your body every 5 seconds.

Every year more and more children are having to be rushed to hospital from their school after a serious injury in the playground. This can be an extremely traumatizing experience, as some hospitals can be an hour or more away from schools. Here at Manly, the closest public hospital to us is Manly Hospital and that's 15 minutes away (without bad traffic). Even though that may not sound like much, 15 minutes could be the difference between life or death.

There are plenty of injuries that you can receive around any school. What about a burn from some escaping acid or a Bunsen burner in chemistry? Or a severed finger in woodwork? What about a tuba to the head in band practice? Or a pencil impaled in your eye in English? A scratch from a rusty ruler in maths? An allergic reaction to dust on a history book? Or even a broken leg from just tripping over the pavement. All of these and more are injuries that require professional care.

Even though all of our office staff are trained in first aid, lifesaving and have even done some online courses at St John's Hospital, is that enough in an emergency situation? Shouldn't we invest in a health officer that's always on standby?

Great things about getting a health officer:

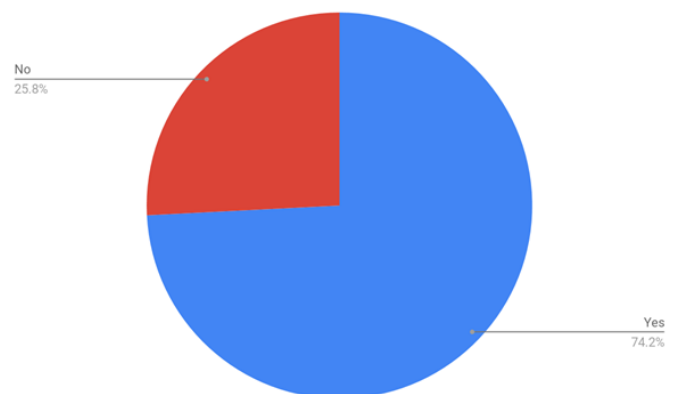
- Would always have someone on standby in case of an emergency

- Would have a specially trained professional who would be swift and extremely accurate
- Would have a mentor/teacher who would be prepared to teach some of the students how to do things like first aid, anaphylaxis treatment, etc
- The students would feel extremely safe and protected, knowing that if they got severely injured, there would be someone right here on campus to help
- There would be less work for the people working in the office

Bad things about getting a health officer:

- Would need to be able to pay them
- Would need the equipment to allow them to do their job properly
- Would need to have days off - What then?
- Would require lots of training

So, what do you guys think? I asked ... students and parents from Manly to get their opinions on whether we should get a school health officer.



Shouldn't we invest in a health officer at Manly?

Article by Isabella White

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Interview Mr Blanch

Are you currently coaching any of the MSC sports teams or involved in any other way?

Yes, I am coaching the opens girls state knockout touch team and I am assistant coach of the opens boys cricket team.

How many games have each of them played and what were the results?

The girls state knockout touch team have played one game against Killarney and we won that, and the boys cricket won their round two game and are moving on to round three.

How do you feel about the games to come and how do you think the teams will go?

I am very confident in both teams and think they will win their next games.

What are students doing in their PE lessons and why is it important that they do these activities?

Year seven are doing fitness tests and this is important because the topic they are doing is sense of self and it helps them know their physical abilities and it helps them with their strength and fitness at the same time. Year nine are doing dance and this is important because it helps their coordination. Year ten to twelve are doing athletics in their elective alternative to PE and this is important because it helps them physically and the athletics carnival is coming soon.

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MSC Sport: Congratulations to the 95 students who represented MSC in the zone swimming carnival and especially to these people who made it to regional and will be representing MSC soon:

- Freya Green - 14-Year-Old Girls Age Champion*
- Fergus Clarkson - 15-Year-Old Boys Age Champion*
- Jack Noakes - 16-Year-Old Boys Age Champion*
- June Liang - 18 & Over Girls Age Champion*

And to the early Year 7's who went up in front of 100's and got through to the next round.

Some of these fantastic swimmers include:

Under 12's Relay Team:

Corin M-S (Year 7)

Luke A (Year 7)

Jack N (Year 7)

Congratulations to the Senior boys' basketball who beat Carlingford high school in a close game. They have made it to round two and will be taking on Cherrybrook technology high school in the next game.

Under 13's Relay Team:

Aiden H (Year 7)

Eliot (Year 7)

Jerry (Year 7)

Aiden P (Year 8)

Christine R- 50m Freestyle (Year 7)

Michael H- 200m Freestyle (Year 7)

*And congratulations to these amazing students:
GOOD LUCK!*

*Loukas Triantis (Year 10) and Gabi Van Dyk (Year 11)
for the SN basketball team...*

Paulus Nel (Year 7), Chun-Ta Wu (Year 7) and Alysha Airey (Year 9) for the SN golf...

Georgia Martin (Year 7) and Malika Russel (Year 9) for the SN girls touch football team...



