SASTA OLIPHANT SCIENCE AWARDS

SOUTH AUSTRALIAN SCIENCE TEACHERS ASSOCIATION

Highly Commended

Models & Inventions

Year R-2

Jasmine Kaur Dandiwal
William McCarthy

Glen Osmond Primary School

ID: 0201-036

Coronavirus Model report

Submission by Jasmine Kaur Dandiwal & Will McCarthy

Considering the current situation, we thought of making a 3D coronavirus model.

We constructed it with cardboard clay (that we made ourselves), Styrofoam, coat hanger wire, cardboard, pushpins and recycled toy parts.

We tried to include all the spikes and bumps on the virus seen under a microscope. We also made another model to show the inside of the virus. The shell and ribbon like genetic material was made using recycled materials.

We faced a few challenges. The colourful blobs couldn't stick with PVA glue, so we had to get a parent to use superglue. For the base, we had to use a cardboard box with hidden support to keep the wire in place to hold the model up. Our parents helped with the base assembly, glue gun and general preparation.

Video Submission QR Code:

https://animoto.com/play/mH6dDKjXISa4EAIQuL31QA

OSA RISK ASSESSMENT FORM

for all entries in (✓) ☑ Models & Inventions and ☐ Scientific Inquiry

This must be included with your report, log book or entry. One form per entry.

NAME: Jasmine Kaur Dandiwal William Rob McCarthy ID:

SCHOOL: Glen osmond Primary School

Activity: Give a brief outline of what you are planning to do.

We made a Covid 19 model. It shows how it looks from outside and inside.

Are there possible risks? Consider the following:

- Chemical risks: Are you using chemicals? If so, check with your teacher that any chemicals to be used are on the approved list for schools. Check the safety requirements for their use, such as eye protection and eyewash facilities, availability of running water, use of gloves, a well-ventilated area or fume cupboard.
- Thermal risks: Are you heating things? Could you be burnt?
- Biological risks: Are you working with micro-organisms such as mould and bacteria?
- Sharps risks: Are you cutting things, and is there a risk of injury from sharp objects?
- Electrical risks: Are you using mains (240 volt) electricity? How will you make sure that this is safe? Could you use a battery instead?
- Radiation risks: Does your entry use potentially harmful radiation such as UV or lasers?
- Other hazards.

Also, if you are using other people as subjects in an investigation you must get them to sign a note consenting to be part of your experiment.

Risks	How I will control/manage the risk
•Sharp risk, spikes on virus are actually Push pins. Please see the attached	We glued the pins before pushing in and an adult assisted us. sheet.

(Attach another sheet if needed.)

Risk Assessment indicates that this activity can be safely carried out

RISK ASSESSMENT COMPLETED BY (student name(s)): Jasmine Kaur Dandiwal William Rob Mccarthy

SIGNATURE(S): Jasmine William Rob McCarthy

☑ By ticking this box, I/we state that my/our project adheres to the listed criteria for this Category.

TEACHER'S NAME: Theresa Andreucci

SIGNATURE: DATE: 18/08/2024

Risks

- Sharp risks Scissors and metal coat hanger

- Thermal risk glue gun

How we managed the risk

Parent watching us cut and Parent cutting the wire

Parent used it for us