



# January 2022

## JSA @ the Central Coast Marine Discovery Centre, Terrigal

### Week 1

Monday 3 <sup>rd</sup>	Tuesday 4 <sup>th</sup>	Wednesday 5 <sup>th</sup>	Thursday 6 <sup>th</sup>	Friday 7 <sup>th</sup>
--	--	<b>Minibeasts, K-2</b>	<b>Eco Warriors, K-2</b>	--
--	--	<b>Zippy Balloons, 3-5</b>	<b>Building Old Town Road, 3-4</b>	--

Classes in **BLUE** text are eligible for Creative Kids vouchers.

**Eco Warriors**  
Years K-2

- Learn about our oceans and how they keep our planet healthy
- Classifying Plastic - How long does it take to break down?
- Mini Worm Farm - Learn about composters and create one to take home
- Make your own Zero Waste products that you can take home!
- Create your own art from items that typically end up in our oceans

**Building Old Town Road**  
Years 3-4

- Develop your engineering skills as you construct your own mini city
- Learn about shapes and 3D objects and how to create them
- Construct buildings using Make Do tool kits and LOTS of cardboard
- Use your new skills and tools to create a huge geodesic dome
- Take home the favourite building you made

**Minibeasts**  
Years K-2

- What is a minibeast?
- Life as a worm - Make your own using a chemical reaction
- Learn how important bees are to our ecosystems
- Minibeast safari and minibeast hotel
- Make your own minibeast!

**Zippy Balloons**  
Years 3-5

- Balloon Explosions - Test how long the balloons can last
- Make a hovercraft and race your classmates to fly the furthest
- 3, 2, 1 ... Blast off - Create rockets with chemical reactions
- See the impact of salt on ice by making ice-cream (non-dairy options)
- Create a chemical reaction in your mouth! - Making sherbet



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### Week 2

Monday 10 <sup>th</sup>	Tuesday 11 <sup>th</sup>	Wednesday 12 <sup>th</sup>	Thursday 13 <sup>th</sup>	Friday 14 <sup>th</sup>
--	--	<b>Slick Science, 1-3</b>	<b>Earth Explorers, K-1</b>	--
--	--	<b>Special Effects, 4-6</b>	<b>Human Circulatory Systems, 2-4</b>	--

**Earth Explorers**  
Years K-1

- Deep inside the Earth - Make your own model of the Earth's layers
- Volcanic eruptions!
- The wonders of rocks on Earth
- Make your own Martian sand to take home!
- Touch and observe ancient fossils - What can they tell us about the past?

**Human Circulatory Systems**  
Years 2-4

- Make a heart, a lung and blood
- Model the circulation of blood around the body
- Sheep heart and lung dissection
- What can you see in a chest x-ray?
- Experiment - What gets our heart pumping the most?

**Slick Science**  
Years 1-3

- Make Butter - Learn what butter is and how to make it
- Environmental Protector - Clean up an oil spill
- Walking on Water - Predict and test buoyancy and displacement
- Salty eggs - Test what makes your egg sink or float
- Make a lava lamp

**Special Effects**  
Years 4-6

- Make spooky potions that change colour
- Make and use invisible inks
- Learn about the brain in a sheep's brain dissection
- Spread the zombie virus
- Make fake blood and create fake wounds



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### Week 3

Monday 17 <sup>th</sup>	Tuesday 18 <sup>th</sup>	Wednesday 19 <sup>th</sup>	Thursday 20 <sup>th</sup>	Friday 21 <sup>st</sup>
--	--	<b>WeDo Beginners, 1-2</b>	<b>Funky Physics, K-1</b>	--
--	--	<b>Take to the Skies, 4-6</b>	<b>WeDo Dino Discovery, 2-4</b>	--

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#### Funky Physics

Years K-1

- Making catapults - Who can launch a marshmallow the furthest?
- Balancing act - Design your own balance toy
- Newton's first Law of Physics - Using eggs!
- Explosions - What is the force behind them?
- Exploring fair tests with paper helicopters

#### Take to the Skies

Years 4-6

- Make the best paper plane – Try famous designs then make your own!
- How are birds able to fly?
- Learn about seeds that fly then create your own
- Make your own flying toy!
- How heavy is air? - Explore air resistance and pressure to break objects

#### WeDo Beginners

Years 1-2

- This is the first class in our We Do Robotics Series
- Solve real-life problems using robotics!
- Use Lego Education WeDo 2.0 sets to build and code your own robots
- Build a spy robot and design & create a slithery snake
- Challenge yourself by building a satellite that can turn & change direction

#### WeDo Dino Discovery

Years 2-4

- Explore the world of Palaeontology
- Look at fossils from millions of years ago
- Bring ancient organisms to life with the WeDo 2.0 Lego Kits
- Experiment with movement and sound to replicate the predicted behaviour of extinct dinosaurs

**Before taking this class children would benefit from completing another WeDo class**