Play-Based Learning Observation Sheet (New Zealand Curriculum)



Time:		lent Voice):				Key Competencies Observed (circle/highlight)	Relating to Others Managing Self	& Text Participating & Contributing		es Technology	Mathematics		
	Children Present:	What I Hear (Student Voice):				Thinking	Language, Symbols & Text	NZC Learning Areas Observed (circle/highlight)	Social Sciences	Health & PE	se insert):		
Date:	Children				Trajectory	Ordering/ Patterning	Digging/ Burying	Families	: Observe		He	eəld) sən	
			(+להולהיל/ סו	(circie/nigniignt)	Deconstruction	Posting	Climbing/ Jumping	Playing with fire	earning Areas	The Arts		School Values (please insert):	
					Construction	Connecting	ormation		NZC L				
			1034O	Obser	Cons		Transforma	Running/Chasing					
			20241/	scnema/ Urges Observed	Gathering	Enveloping	Orientation	Running		ce	English		
Play Observed:		What I Noticed:		Scher	Transporting	Enclosure	Rotation O	Playing with water		Science			
Notice 4					esingooeA								



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Possible Planned Responses (teacher notes):			
Respond	Possible Planned Responses (teacher notes):		
		Respond	



The Role of the Teacher: Developing Science Literacy

Science Curriculum Level 1 & 2

Nature of Science

Predict, test (out), hypothesis/hypothesise, change, question, explain/explanation, investigate, experiment/explore, model, understand, communicate, participate, contribute, issues, theory/theories, collect/collecting, idea(s), method, discuss

Living World

Living needs (eg food, water, shelter, warmth/cooling), food chain,

predators, prey, habitat (water, land, air), bacteria, organisms, fungi,

conservation, environment,

Ecology: Parts of living creatures (eg antennae, thorax, abdomen, tentacles,

whiskers), endangered, native, endemic/introduced, camouflage, life

cycle, defense system/protection, metamorphosis, pollination,

germination, sprout/seeling, seeds, plant structure (leaf, stem, roots),

photosynthesis

Evolution: Insect, reptile, arachnid, mammal, amphibian, marine etc, species,

conifers, cones, spores, mosses, ferns, conifers, evergreens, deciduous, broadleaf, fossilisation, extinct, mummified

Material World

Observe, describe, compare/comparison, physical change, chemical change, materials, mix, heated, cooled, liquid, solid, gas, melt, freeze, boil, condense, evaporate, react/reaction, dissolve, use of (materials), compounds, mixtures, solutions, soluable, acid, alkali, atoms, catalyst, density, distill, metal, shiny, ductile, oxidation

Plastics, biodegradable, waterproof, malleable, bend, break, compostable, transluscent, opaque, brittle, soft

Physical World

Movement/Forces: accelerate/acceleration, deceleration, speed, velocity, friction,

surface, energy, motion, force, gravity, push/pull, lever, direction,

strength, mass, equilibrium, tension, elastic, torque, drag, electromagnetic, thrust, momentum, impulse, power, pressure, kinetic energy, joule, newton, pascal, simple machine, watt, weight

Longworth Education Ltd Poraiti, RD2, Napier, New Zealand info@longwortheducation.co.nz

Ph: +64 21 552846

Electricity/ amp/ampere, battery, capacitor, conductor, diode, alternating current

Magnetism: (AC), direct current (DC), electric charge, protons, electrons, circuit,

current, electric potential (voltage), inductor, magnetic field, resistor, semi-conductor, static electricity, transformer, transistor, watt, poles

(north and south), radiation

Light & Sound: light wave, sound wave, reflection, refraction, light speed,

transparent, opaque, translucent, prisms, light spectrum, wavelength,

frequency, vibrate, colour, magnification, amplification, pitch,

acoustics, volume, decibels, pitch,

Waves: mechanical, electromagnetic, transverse, longitudinal,

electric/magnetic field, frequency, radio waves, microwaves, infrared, visible light, ultra-violet (eg Hubble Telescope), x-rays, gamma rays, Energy, temperature, joules, calories, expand/expansion, transfer,

contract, conduct, thermometer, temperature scales (celcius,

farenheit, kelvin), mercury, freezing, boiling, change,

Simple patterns in

Heat:

Physical Phenomena: change, patterns, similar, like, different, laws of physics (eg motion,

theory of matter, relativity etc)

Planet Earth & Beyond

Earth Systems: Melting, evaporation, erosion, soil, clay, gravel, sand, bedrock, cave,

ablation, delta, earthquake, earth's core, earth's crust, fault, fossil, glacier, ice age, igneous rock, magma, lava, mantle, metamorphic rock, mineral, mountain, ocean tide, tectonic plates, relief, ridges, rift,

rock, sediment, topography, volcano, geology, transpiration, sublimation (water cycle), precipitation, atmosphere, seasons, weather systems, clouds (names of these e.g. cirrus, cummulus etc), meteorology, desert, tides, tundra, grasslands, savanna, rainforests

Interacting Systems: disasters (e.g. tsunami, earthquake, eruption,

tornado/hurricane/typhoon), climate change, pollution, environment, erosion, damns (redirection of water, flooding, collection of water), ecosystems, global warming, food chains, water cycles, renewable

energy (hydro/geothermal/solar/wind power).

Astronomical

Systems:

atmosphere, seasons, orbit, planet, satellite, solar system, telescope universe, eclipse, lunar, solar, heat, light, gravity, ocean tides, shade,

shadows,

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Schema in Children's Play



	Climbing
	Jumping
	Tumbling and
•	wrestling
	Tug of war
	Running and chasing
	Digging and Burying
	Gathering
	Connection
	Posting
	Patterning and
	ordering
	Orientation
	Enveloping
	Rotation
	Trajectory
	Transporting
	Playing with Fire
	Playing with Water
	Transformation
	Enclosure
,	Deconstruction
	Construction
	Families