

CHECKLIST FOR THIRD GRADE SCIENCE *CHECKS FOR UNDERSTANDING*

✓	DATE	CHECKS FOR UNDERSTANDING
Column1	Column2	Column3
		Embedded Inquiry
		0307.Inq.1 Identify specific investigations that could be used to answer a particular question and identify reasons for this choice.
		0307.Inq.2 Identify tools needed to investigate specific questions.
		0307.Inq.3 Maintain a science notebook that includes observations, data, diagrams, and explanations.
		0307.Inq.4 Analyze and communicate findings from multiple investigations of similar phenomena to reach a conclusion.
		Embedded Technology & Engineering
		0307.T/E.1 Explain how different inventions and technologies impact people and other living organisms.
		0307.T/E.2 Design a tool or a process that addresses an identified problem caused by human activity.
		0307.T/E.3 Determine criteria to evaluate the effectiveness of a solution to a specified problem.
		0307.T/E.4 Evaluate an invention that solves a problem and determine ways to improve the design.
		Standard 1 - Cells
		0307.1.1 Use a magnifier to investigate and describe the function of root hairs, stem cross sections, and leaf veins.
		0307.1.2 Use a magnifier to investigate and describe the function of skin pores, hair follicles, finger nails, veins, and cuticles, etc.
		Standard 2 - Interdependence
		0307.2.1 Use a T-Chart to compare and contrast the characteristics of living and non-living things.
		0307.2.2 Label a drawing of an environment to illustrate interrelationships among plants and animals.
		0307.2.3 Construct a diagram to demonstrate how plants, animals, and the environment interact to provide basic life requirements.
		Standard 3 - Flow of Matter and Energy
		0307.3.1 Label a diagram to illustrate the food relationships that exist between plant and animals.
		0307.3.2 Create a chart to show how plants and animals satisfy their energy requirements.
		0307.3.3 Identify structures used by different plants and animals to meet their basic energy requirements.
		0307.3.4 Use a piece of text to obtain basic information about how plants and animals obtain food.
		Standard 4 - Heredity
		0307.4.1 Sequence diagrams that illustrate various stages in the development of an organism.
		0307.4.2 Create a timeline to depict the changes that occur during an organism's life cycle.
		0307.4.3 Differentiate among the stages in the life cycle of a butterfly, mealworm, frog, and plant.
		0307.4.4 Draw conclusions about the similarities and differences between parents and their offspring.
		0307.4.5 Make a list of human characteristics that are transmitted from parents to their offspring.
		Standard 5 - Biodiversity and Change
		0307.5.1 Create representations of animals that have characteristics necessary to survive in a particular environment.
		0307.5.2 Investigate the connection between an organism's characteristics and its ability to survive in a specific environment.

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	0307.5.3 Describe how environmental factors change over place and time.
	0307.5.4 Determine how changes in an environmental variable can affect plants and animals of an area.
	0307.5.5 Construct a diorama that shows plants and animals in an appropriate environment.
	0307.5.6 Identify evidence used to determine the previous existence of an organism.
	0307.5.7 Use a data chart or informational text to classify organisms as thriving, threatened, endangered, or extinct.
	Standard 6 - The Universe
	0307.6.1 Create a model of the solar system depicting the major components and their relative positions and sizes.
	0307.6.2 Use a table to compare and contrast the major solar system components.
	Standard 7 – The Earth
	0307.7.1 Use a Venn diagram to compare and contrast two different landforms or bodies of water.
	0307.7.2 Analyze the physical characteristics of different kinds of rocks.
	0307.7.3 Use a magnifier to observe, describe, and compare materials to determine if they are natural or man-made.
	0307.7.4 Design and evaluate a method for reusing or recycling classroom materials.
	0307.7.5 Create a web that demonstrates the link between basic human needs and the earth’s resources.
	Standard 8 - The Atmosphere
	0307.8.1 Select appropriate tools used for collecting weather data that correspond to the atmospheric condition being measured.
	0307.8.2 Identify major cloud types and associate them with particular weather conditions.
	Standard 9 – Matter
	0307.9.1 Use physical properties to compare and contrast substances.
	0307.9.2 Compare and contrast events that demonstrate evaporation, crystallization, and melting.
	0307.9.3 Make predictions and conduct experiments about conditions needed to change the physical properties of particular substances.
	0307.9.4 Classify combinations of materials according to whether they have retained or lost their individual properties.
	0307.9.5 Investigate different ways to separate mixtures such as filtration, evaporation, settling, or using a sieve.
	Standard 10 – Energy
	0307.10.1 Associate the sun’s energy with the melting of an ice cube placed in a window.
	0307.10.2 Investigate various materials to explore heat conduction.
	Standard 11 – Motion
	0307.11.1 Plan an investigation to illustrate how changing the mass affects a balanced system.
	0307.11.2 Use a variety of materials to produce sounds of different pitch and volume.
	0307.11.3 Classify a variety of taped sounds according to their pitch and volume.
	Standard 12 - Forces in Nature
	0307.12.1 Experiment with magnets to determine how distance affects magnetic attraction.
	0307.12.2 Determine that only certain types of objects are attracted to magnets.