

Grade	K-1	2-3	4-5	6-8	9-12
Age	5-7 y.o.	7-9 y.o.	9-11 y.o.	11-14 y.o.	14-18 y.o.
Instruction Time	5-7 minutes	7-9 minutes	9-11 minutes	10-13 minutes	12-15 minutes
Science Skills and NGSS Practices	<ul style="list-style-type: none"> • Observation • Using 5 senses • Patterns 	<ul style="list-style-type: none"> • Constructing explanations • Comparisons 	<ul style="list-style-type: none"> • Obtain and communicate information 	<ul style="list-style-type: none"> • Asking questions from observation • Engage in argument from evidence 	<ul style="list-style-type: none"> • Developing and using models • Analyzing and interpreting data
Geographic and Contextual Reference	Immediate surroundings and village/town	Town and neighboring towns	State and the beginning of country geography	Country	World
Developmental Stage	<ul style="list-style-type: none"> • Ego-centric • Imaginative, High Energy, just learning regulation • Straddling Independence and reliance • Teacher needs to make the motivation 	<ul style="list-style-type: none"> • Teacher needs to make the motivation • Beginning to learn regulation 	<ul style="list-style-type: none"> • Building relationships and values friendships • Chatty • Encourage students to make choices 	<ul style="list-style-type: none"> • Building relationships • Wants more independence and choice • Self-conscious • Teacher needs to convey relevance to student 	<ul style="list-style-type: none"> • Self-conscious • Teacher needs to convey how topic relates to student so they can develop motivation
Activities	<ul style="list-style-type: none"> • Free Play • Imaginative play • Active play • Storybooks • Sensory bins 	<ul style="list-style-type: none"> • Role playing • Competition • Expanding Vocabulary 	<ul style="list-style-type: none"> • Problem-solving in games and puzzles. • Group/partner work • Generate predictions 	<ul style="list-style-type: none"> • Identifying problems • Small group work • Generate Predictions • Generate Questions 	<ul style="list-style-type: none"> • Creating Solutions • Small group work • Individual projects • Peer-peer teaching • Generate Questions
Avoid (as the focus or primary activity)	<ul style="list-style-type: none"> • Competition • Excessive collaborative work • Fine motor skills 	<ul style="list-style-type: none"> • Excessive collaborative work • Long-term, detailed work 		<ul style="list-style-type: none"> • Putting them on the spot • Forcing them to be silly 	<ul style="list-style-type: none"> • Putting them on the spot • Forcing them to be silly

