

ARGUMENT-DRIVEN  
INQUIRY™



# Texas ADI Learning Hub for Science

## 4<sup>th</sup> Grade

2024

Equipment and Consumables



Equipment	Quantity for Class	Investigation
Digital scale	6	Adding Water to Other Liquids
Beaker	6	Adding Water to Other Liquids
Battery holder	6	Are All Magnets Conductors of Electricity?
Copper rod	6	Are All Magnets Conductors of Electricity?
Pennies	6	Are All Magnets Conductors of Electricity?
Ceramic disk magnet	6	Are All Magnets Conductors of Electricity?
Ceramic bar magnet	6	Are All Magnets Conductors of Electricity?
Metal bar magnet	6	Are All Magnets Conductors of Electricity?
Metal horseshoe magnet	6	Are All Magnets Conductors of Electricity?
Paper clips	1 box	Are All Magnets Conductors of Electricity?, Sled Up a Ramp
Lightbulb holder	18	Are All Magnets Conductors of Electricity?, Winner! Winner! Hot Dinner!
Wire cutter	1	Are All Magnets Conductors of Electricity?, Winner! Winner! Hot Dinner!
Small marble	12	Billiards Break Speed
Large marble	24	Billiards Break Speed
Track tower	6	Billiards Break Speed
Cloth meter stick	8	Billiards Break Speed, Flotation System for Shipping Containers, The Power of Wind, Storm Surge Protection for Texas Coast Homes
Stopwatch	6	Billiards Break Speed, Research Stations in the Antarctic
Track	6	Billiards Break Speed, Sled Up a Ramp
Scales	6	Conservation of Matter and Volume
100-milliliter beaker	6	Conservation of Matter and Volume, Heating Water with Water
Hand lens	6	Conservation of Matter and Volume, Unknown Powder Identification, Water in the Desert, Water Traveling from Roots to Leaves
Sheet of transparency film with 5-millimeter grid	6	Decomposers in the Soil
Wet-erase pen	6	Decomposers in the Soil
Farm map with organism sampling data	6	Decomposers in the Soil
Lamp	6	Differences in Duration of Daylight
Inflatable globe	6	Differences in Duration of Daylight
Phytoplankton card	6	Energy Transfer in Arctic Ecosystems
Zooplankton card	6	Energy Transfer in Arctic Ecosystems
Shrimp card	6	Energy Transfer in Arctic Ecosystems
Snow crab card	6	Energy Transfer in Arctic Ecosystems
Arctic birds card	6	Energy Transfer in Arctic Ecosystems
Arctic cod card	6	Energy Transfer in Arctic Ecosystems
Ringed seal card	6	Energy Transfer in Arctic Ecosystems
Bowhead whale card	6	Energy Transfer in Arctic Ecosystems

Beluga whale card	6	Energy Transfer in Arctic Ecosystems
Walrus card	6	Energy Transfer in Arctic Ecosystems
Capelin card	6	Energy Transfer in Arctic Ecosystems
Polar bear card	6	Energy Transfer in Arctic Ecosystems
Orca card	6	Energy Transfer in Arctic Ecosystems
Aluminum pie pan	6	Energy Transferred by Sound
Speaker	6	Energy Transferred by Sound
Tray	6	Exposed Tree Roots, Mouth of the Mississippi
Sheet of transparency film with 1-centimeter grid	6	Exposed Tree Roots, Mouth of the Mississippi
Plastic bottle and screw cap with holes	6	Exposed Tree Roots, Mouth of the Mississippi
Measuring cups	6	Exposed Tree Roots, Mouth of the Mississippi
Ruler	24	Exposed Tree Roots, Mouth of the Mississippi, Pepper Defense
Small plastic box	8	Flotation System for Shipping Containers
64-quart plastic box	1	Flotation System for Shipping Containers
Toolbox	6	Flotation System for Shipping Containers
Washers	500	Flotation System for Shipping Containers, Sled Up a Ramp
Hot glue gun	8	Flotation System for Shipping Containers, Storm Surge Protection for Texas Coast Homes
Safety box cutter	8	Flotation System for Shipping Containers, Storm Surge Protection for Texas Coast Homes
Long nose pliers	8	Flotation System for Shipping Containers, Storm Surge Protection for Texas Coast Homes
Mini hammer	8	Flotation System for Shipping Containers, Storm Surge Protection for Texas Coast Homes
Philips head screwdriver	8	Flotation System for Shipping Containers, Storm Surge Protection for Texas Coast Homes
Hobby snipper	8	Flotation System for Shipping Containers, Storm Surge Protection for Texas Coast Homes
Mini wire cutter	8	Flotation System for Shipping Containers, Storm Surge Protection for Texas Coast Homes
250-milliliter beaker	6	Heating Water with Water
Hot water bath	6	Heating Water with Water
Digital thermometer	6	Heating Water with Water, Research Stations in the Antarctic
25-milliliter graduate cylinder	6	Ice and Bumpy Roads

Physical model of the Earth	8	Moon Phases
Physical model of the Moon	8	Moon Phases
Stands	16	Moon Phases
Clamp-on lamp	8	Moon Phases
12-inch wooden dowel	8	Moon Phases
Wooden block	6	Mouth of the Mississippi
Ice cube tray	1	Recession of Glaciers
Large plastic cup	6	Research Stations in the Antarctic
Pulley connector	6	Sled Up a Ramp
Tower track connector	6	Sled Up a Ramp
Pulley guide ring	6	Sled Up a Ramp
Cart	6	Sled Up a Ramp
33.9375-by-6.3125 inch plastic box	1	Storm Surge Protection for Texas Coast Homes
Plastic wading pool	1	Storm Surge Protection for Texas Coast Homes
Model of a home	1	Storm Surge Protection for Texas Coast Homes
Hand-held air pump	6	The Power of Wind
Stream tray	6	The Power of Wind
Labradoodle cards	1	Traits of Parents and Offspring
Beagle cards	1	Traits of Parents and Offspring
Main Coon cat cards	1	Traits of Parents and Offspring
Short hair cat cards	1	Traits of Parents and Offspring
Teddy guinea pig cards	1	Traits of Parents and Offspring
Peruvian guinea pig cards	1	Traits of Parents and Offspring
Parakeet cards	1	Traits of Parents and Offspring
Cockatiel card	1	Traits of Parents and Offspring
Pea cards	1	Traits of Parents and Offspring
Brassica	1	Traits of Parents and Offspring
Snapdragon	1	Traits of Parents and Offspring
Plastic dropper bottle	12	Unknown Powder Identification
Funnels	3	Unknown Powder Identification
Pipette	6	Unknown Powder Identification
Well plate	6	Unknown Powder Identification
Limestone rock	6	Water in the Desert
Sandstone rock	6	Water in the Desert
Granite	6	Water in the Desert
Basalt	6	Water in the Desert
Slate	6	Water in the Desert
AA battery holder	18	Winner! Winner! Hot Dinner!

Consumables	Quantity for Class	Investigation
Stirring stick	30	Adding Water to Other Liquids
Dish soap	1 bottle	Adding Water to Other Liquids
Honey	1 bottle	Adding Water to Other Liquids
Vegetable oil	1 bottle	Adding Water to Other Liquids
Vinegar	1 bottle	Adding Water to Other Liquids
Mineral Oil	1 bottle	Adding Water to Other Liquids
Clear plastic cup	30	Adding Water to Other Liquids
D-cell battery	6	Are All Magnets Conductors of Electricity?
Aluminum foil	6	Are All Magnets Conductors of Electricity?
Lightbulb	6	Are All Magnets Conductors of Electricity?
Wire	24 feet	Are All Magnets Conductors of Electricity?
Felt or foam square	6	Billiards Break Speed
Numbers sticker sheet	6	Billiards Break Speed
19-ounce canister of Kool-Aid drink mix	1	Conservation of Matter and Volume
26-ounce container of salt	1	Conservation of Matter and Volume
16-ounce box brown sugar	1	Conservation of Matter and Volume
16-ounce vegetable oil	1	Conservation of Matter and Volume
Pea gravel	1 bag	Conservation of Matter and Volume
Plastic beads	1 bag	Conservation of Matter and Volume
Plastic spoon	18	Conservation of Matter and Volume
Clear plastic cup	42	Conservation of Matter and Volume
Light bulb	6	Differences in Duration of Daylight
Compass stickers	6	Differences in Duration of Daylight
Dry rice	1 bag	Energy Transferred by Sound
Pipe cleaners	1 package	Exposed Tree Roots
50-pound bag of sand	1 bag	Exposed Tree Roots
300-millimeter by 5-millimeter dowels	16	Flotation System for Shipping Containers
300-millimeter slide stop	8	Flotation System for Shipping Containers
Hole plate	16	Flotation System for Shipping Containers
Connector	16	Flotation System for Shipping Containers
Perpendicular blocks	32	Flotation System for Shipping Containers
.125-inch foam padding sheet	16	Flotation System for Shipping Containers
.5-inch polystyrene	16	Flotation System for Shipping Containers
2-inch convoluted foam	16	Flotation System for Shipping Containers
Duct tape	1 roll	Flotation System for Shipping Containers
Press-and-seal food wrap	1 box	Flotation System for Shipping Containers
4-by-5 inch bags	32	Flotation System for Shipping Containers
2-by-3 inch bags	32	Flotation System for Shipping Containers
Hot glue sticks	16	Flotation System for Shipping Containers
Plastic straws	6	Heating Water with Water
Dried yellow sponges	30	Ice and Bumpy Roads
Compass stickers	8	Moon Phases
Lightbulb	8	Moon Phases

50-pound bag of sand	1 bag	Mouth of the Mississippi
Plants (roots, stems, leaves, flowers)	30	Pepper defense
Ice cube	6	Recession of Glaciers
Sand	1 bag	Recession of Glaciers
Rough-grit sandpaper	6 sheets	Recession of Glaciers
Pebbles	1 bag	Recession of Glaciers
Felt	12	Research Stations in the Antarctic
Foil	1 roll	Research Stations in the Antarctic
Plastic wrap	1 roll	Research Stations in the Antarctic
Foam sheets	12	Research Stations in the Antarctic
Cotton fabric	12	Research Stations in the Antarctic
Duct tape	1 roll	Research Stations in the Antarctic
Aluminum foil	6	Sled Up a Ramp
Bubble wrap	6	Sled Up a Ramp
Coarse sandpaper	6	Sled Up a Ramp
Felt	6	Sled Up a Ramp
String	1 roll	Sled Up a Ramp
300-millimeter by 5-millimeter dowels	32	Storm Surge Protection for Texas Coast Homes
300-millimeter slide stop	24	Storm Surge Protection for Texas Coast Homes
Hole plate	32	Storm Surge Protection for Texas Coast Homes
Connector	16	Storm Surge Protection for Texas Coast Homes
Perpendicular blocks	32	Storm Surge Protection for Texas Coast Homes
2-by-3 inch bags	64	Storm Surge Protection for Texas Coast Homes
Plastic straws	200	Storm Surge Protection for Texas Coast Homes
Chip board	16	Storm Surge Protection for Texas Coast Homes
Trees	24	Storm Surge Protection for Texas Coast Homes
Duct tape	4 rolls	Storm Surge Protection for Texas Coast Homes
Play sand	50 pounds	Storm Surge Protection for Texas Coast Homes
Brown sugar	4 pounds	The Power of Wind
Chocolate chips	As needed	The Power of Wind
Small plastic cup	12	The Power of Wind
Vinegar	6 ounces	Unknown Powder Identification
Iodine	6 ounces	Unknown Powder Identification
Corn starch	75-125 grams	Unknown Powder Identification
Salt	75-125 grams	Unknown Powder Identification

Baking soda	75-125 grams	Unknown Powder Identification
Baking power	75-125 grams	Unknown Powder Identification
Spoons	32	Unknown Powder Identification
Plastic ramekins with lids	36	Unknown Powder Identification
Labeling stickers	2 sheet	Unknown Powder Identification
Celery	6 bunches	Water Traveling from Roots to Leaves
Box choy	6 bunches	Water Traveling from Roots to Leaves
White carnations	24	Water Traveling from Roots to Leaves
Food coloring (four different colors)	1 set	Water Traveling from Roots to Leaves
AA battiers	18	Winner! Winner! Hot Dinner!
Miniature lightbulbs	18	Winner! Winner! Hot Dinner!
1-foot pieces of wire	24	Winner! Winner! Hot Dinner!