

ISAT Science Priorities

Science Content Category Table (ISBE.net)

Grade	4	7
State Goal 11	20%	20%
Standard 11A – Scientific Inquiry	10%	10%
Standard 11B – Technological Design	10%	10%
State Goal 12	60%	60%
Standard 12A – Living Things ¹	10%	10%
	10%	10%
Standard 12C – Matter and Energy ²	10%	10%
Standard 12D – Force and Motion	10%	10%
Standard 12E – Earth Science ³	10%	10%
Standard 12F – Astronomy	10%	10%
State Goal 13	20%	20%
Standard 13A – Safety and Practices of Science	10%	10%
Standard 13B – Science, Technology, Society ⁴	10%	10%
Total	100%	100%

¹ Includes the following topics: Classification, Cell Biology (Grade 7 only), Reproduction (Grade 4 only), Genetics and Reproduction (Grade 7 only), Botany (Grade 7 only), Change Over Time (Grade 7 only)

² Includes the following topics: Properties of Matter, The Atom (Grade 7 only), Acids and Bases (Grade 7 only), Energy/Electricity (Grade 4 only), Electricity (Grade 7 only), Light

³ Includes the following topics: Basic Earth Science (Grade 4 only), The Earth’s Structure (Grade 7 only), The Earth’s Dynamic Processes, The Atmosphere, Water

⁴ Includes the following concept: Measurement

SCIENCE PROGRESS STRATEGIES

- Students read and write about science topics
 - Students use graphic organizers to “show” science
 - Post science vocabulary and illustrations
 - Students write science learning reports
 - Students make and interpret data tables and graphs each week
 - January: Revisit core science essential for ISAT
 - February: Emphasize scientific method and data interpretation, continue to revisit core science content essential for ISAT
- Use ISAT sample test to simulate science test; clarify test-taking strategies



Fourth Grade ISAT Science Vocabulary

When students take the ISAT science test, they will need to be able to comprehend science explanations and questions. The following list includes some important 4th grade level science content words and some words that are used to ask students to interpret information on the test. The list includes words from the ISAT 2008 Sample Test for Fourth Grade.

Ways to help students develop fluency with these words include:

- Make a glossary
- Group words by root words
- Group words by topic
- Write about a topic in science using some of these words.
- Make a cross-word puzzle or matching game with these words.

amount	attract
attraction	carnivore
carnivorous	cause
charged	compare
conclude	conclusion
conclusive	contrast
data	decompose
density	dense
diagram	effect
erosion	erode
estimate	estimation
expand	experiment
friction	gas
graph	identify
identification	intensity
invertebrate	lever
liquid	measure
measurable	negative
nutrient	nutrition
nutritious	particle
photosynthesis	plane
pole	positive
predatory	prey
predict	prediction
pressure	predator
relate	relationship
repel	resource
similar	similarity
solid	temperature
variable	vary
vertebrate	weigh



ISAT PRIORITIES: 4th GRADE ESSENTIAL SCIENCE CONTENT

Based on the Illinois Learning Standards and ISAT Samples and Specifications

SCIENCE IS THINKING:

inquiry data Analysis forming a hypothesis observation measurement

Science is Knowing and Applying Concepts and Content

<p>Inquiring about FORCE AND MOTION</p> <ul style="list-style-type: none"> <input type="checkbox"/> balance/equilibrium <input type="checkbox"/> friction <input type="checkbox"/> gravity <input type="checkbox"/> magnetism <input type="checkbox"/> simple machines: level, inclined plane, pulley, screw, and wheel and axle—how they function, how they apply forces with advantage, relate to tasks 	<p>Inquiring about ENERGY/ELECTRICITY AND LIGHT</p> <table border="1" style="width: 100%;"> <tbody> <tr> <td><input type="checkbox"/> attraction</td> <td><input type="checkbox"/> electrical energy</td> </tr> <tr> <td><input type="checkbox"/> heat</td> <td><input type="checkbox"/> light</td> </tr> <tr> <td><input type="checkbox"/> magnet</td> <td><input type="checkbox"/> mechanical energy</td> </tr> <tr> <td><input type="checkbox"/> nonmetal</td> <td><input type="checkbox"/> prism</td> </tr> <tr> <td><input type="checkbox"/> repel</td> <td><input type="checkbox"/> static electrical charge</td> </tr> </tbody> </table>	<input type="checkbox"/> attraction	<input type="checkbox"/> electrical energy	<input type="checkbox"/> heat	<input type="checkbox"/> light	<input type="checkbox"/> magnet	<input type="checkbox"/> mechanical energy	<input type="checkbox"/> nonmetal	<input type="checkbox"/> prism	<input type="checkbox"/> repel	<input type="checkbox"/> static electrical charge										
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<p>INQUIRY</p> <ul style="list-style-type: none"> <input type="checkbox"/> Students observe, analyze, and read <input type="checkbox"/> Continue science topical word wall. <input type="checkbox"/> Students interpret data table or graph <input type="checkbox"/> Students make glossary <input type="checkbox"/> Students write summary <p><i>Inquiry, Data Analysis, forming a hypothesis; observation; Measurement, Evaluation, Content</i></p>	<p>Inquiring about ENVIRONMENT AND INTERACTION OF LIVING THINGS</p> <table border="1" style="width: 100%;"> <tbody> <tr> <td><input type="checkbox"/> decomposer</td> <td><input type="checkbox"/> ecosystem</td> </tr> <tr> <td><input type="checkbox"/> food chain</td> <td><input type="checkbox"/> food web</td> </tr> <tr> <td><input type="checkbox"/> life cycle</td> <td><input type="checkbox"/> photosynthesis</td> </tr> <tr> <td><input type="checkbox"/> plants, plant growth</td> <td><input type="checkbox"/> producer</td> </tr> <tr> <td><input type="checkbox"/> reproduction</td> <td></td> </tr> </tbody> </table>	<input type="checkbox"/> decomposer	<input type="checkbox"/> ecosystem	<input type="checkbox"/> food chain	<input type="checkbox"/> food web	<input type="checkbox"/> life cycle	<input type="checkbox"/> photosynthesis	<input type="checkbox"/> plants, plant growth	<input type="checkbox"/> producer	<input type="checkbox"/> reproduction											
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Seventh Grade ISAT Science Vocabulary

When students take the ISAT science test, they will need to be able to comprehend science explanations and questions. The following list includes some important 7th grade level science content words and some words that are used to ask students to interpret information on the test. The list includes words from the ISAT 2008 Sample Test for Seventh Grade.

Ways to help students develop fluency with these words include:

- Make a glossary.
- Group words by root words.
- Group words by topic.
- Write about a topic in science using some of these words.
- Make a crossword puzzle or matching game with these words.

amoeba	analysis	analyze
average	bacteria	bacterium
base	bio (prefix)	biodegradable
biodegrade	buoy	buoyancy
buoyant	carnivore	carnivorous
cause	compare	comparison
conclude	conclusion	conclusive
condensation	condense	constellation
consume	consumption	contrast
degrade	diagram	diffraction
Diffuse	diffusion	dominant
dominate	effect	erode
erosion	estimate	estimation
exert	factor	flagellum
friction	granite	graph
herb	herbivore	identification
identify	igneous	litmus paper
mass	measurable	measure
media	medium	meiosis
mitosis	obsidian	omni- (prefix)
omnivore	orbit	osmosis
palmate	parasite	pinnate
pole	predict	prediction
rate	recess	recessive
reflect	reflection	refract
refraction	relate	relationship
reproduce	reproduction	sedimentary
separation	sequence	sequential
similar	similarity	trend
volume		



7th GRADE ESSENTIAL ISAT SCIENCE CONTENT

Based on the Illinois Learning Standards and ISAT Samples and Specifications

SCIENCE IS THINKING:

- inquiry
- data Analysis
- forming a hypothesis
- observation
- measurement
- evaluating an outcome

<p>Inquiring about Biology, Genetics, and Reproduction</p> <table border="1"> <tbody> <tr><td><input type="checkbox"/> amoeba</td><td><input type="checkbox"/> bacteria</td></tr> <tr><td><input type="checkbox"/> bio (prefix)</td><td><input type="checkbox"/> carnivorous</td></tr> <tr><td><input type="checkbox"/> carnivore</td><td><input type="checkbox"/> cell</td></tr> <tr><td><input type="checkbox"/> classification</td><td><input type="checkbox"/> disease</td></tr> <tr><td><input type="checkbox"/> dominant</td><td><input type="checkbox"/> euglena</td></tr> <tr><td><input type="checkbox"/> flagellum</td><td><input type="checkbox"/> heredity</td></tr> <tr><td><input type="checkbox"/> meiosis</td><td><input type="checkbox"/> mitosis</td></tr> <tr><td><input type="checkbox"/> omnivore</td><td><input type="checkbox"/> organism</td></tr> <tr><td><input type="checkbox"/> osmosis</td><td><input type="checkbox"/> population</td></tr> <tr><td><input type="checkbox"/> recessive</td><td><input type="checkbox"/> reproduction</td></tr> <tr><td><input type="checkbox"/> relate</td><td><input type="checkbox"/></td></tr> </tbody> </table>	<input type="checkbox"/> amoeba	<input type="checkbox"/> bacteria	<input type="checkbox"/> bio (prefix)	<input type="checkbox"/> carnivorous	<input type="checkbox"/> carnivore	<input type="checkbox"/> cell	<input type="checkbox"/> classification	<input type="checkbox"/> disease	<input type="checkbox"/> dominant	<input type="checkbox"/> euglena	<input type="checkbox"/> flagellum	<input type="checkbox"/> heredity	<input type="checkbox"/> meiosis	<input type="checkbox"/> mitosis	<input type="checkbox"/> omnivore	<input type="checkbox"/> organism	<input type="checkbox"/> osmosis	<input type="checkbox"/> population	<input type="checkbox"/> recessive	<input type="checkbox"/> reproduction	<input type="checkbox"/> relate	<input type="checkbox"/>	<p>Inquiring about Botany</p> <ul style="list-style-type: none"> <input type="checkbox"/> carbon dioxide <input type="checkbox"/> classification <input type="checkbox"/> efficient <input type="checkbox"/> food chain <input type="checkbox"/> herb <input type="checkbox"/> herbivore <input type="checkbox"/> osmosis <input type="checkbox"/> oxygen <input type="checkbox"/> palmate <input type="checkbox"/> solar energy <input type="checkbox"/> structure 																
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<p>Inquiring about ASTRONOMY</p> <table border="1"> <tbody> <tr><td><input type="checkbox"/> air mass</td><td><input type="checkbox"/> atmosphere</td></tr> <tr><td><input type="checkbox"/> constellation</td><td><input type="checkbox"/> gravity</td></tr> <tr><td><input type="checkbox"/> hemisphere</td><td><input type="checkbox"/> mass</td></tr> <tr><td><input type="checkbox"/> orbit</td><td><input type="checkbox"/> planets</td></tr> <tr><td><input type="checkbox"/> rotation</td><td><input type="checkbox"/> solar system</td></tr> <tr><td><input type="checkbox"/> star</td><td><input type="checkbox"/> weight</td></tr> </tbody> </table>	<input type="checkbox"/> air mass	<input type="checkbox"/> atmosphere	<input type="checkbox"/> constellation	<input type="checkbox"/> gravity	<input type="checkbox"/> hemisphere	<input type="checkbox"/> mass	<input type="checkbox"/> orbit	<input type="checkbox"/> planets	<input type="checkbox"/> rotation	<input type="checkbox"/> solar system	<input type="checkbox"/> star	<input type="checkbox"/> weight	<p>Inquiring about Science, Technology, Society, and Safety</p> <table border="1"> <tbody> <tr><td><input type="checkbox"/> average</td><td><input type="checkbox"/> biodegradable</td></tr> <tr><td><input type="checkbox"/> conclusion</td><td><input type="checkbox"/> estimate</td></tr> <tr><td><input type="checkbox"/> experiment</td><td><input type="checkbox"/> investigate</td></tr> <tr><td><input type="checkbox"/> measure</td><td><input type="checkbox"/> rate</td></tr> <tr><td><input type="checkbox"/> recycle</td><td><input type="checkbox"/> research</td></tr> <tr><td><input type="checkbox"/> strategy</td><td><input type="checkbox"/> visual observation</td></tr> </tbody> </table>	<input type="checkbox"/> average	<input type="checkbox"/> biodegradable	<input type="checkbox"/> conclusion	<input type="checkbox"/> estimate	<input type="checkbox"/> experiment	<input type="checkbox"/> investigate	<input type="checkbox"/> measure	<input type="checkbox"/> rate	<input type="checkbox"/> recycle	<input type="checkbox"/> research	<input type="checkbox"/> strategy	<input type="checkbox"/> visual observation														
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