

Critical Thinking Skills

Energy

Skills For Critical Thinking		Reading Comprehension							Hands-on Activities
		Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7	
LEVEL 1 Knowledge	<ul style="list-style-type: none"> List Details/Facts Recall Information Match Vocab. to Definitions Define Vocabulary Label Diagrams Recognize Validity (T/F) 	✓	✓	✓	✓	✓	✓	✓	✓
LEVEL 2 Comprehension	<ul style="list-style-type: none"> Demonstrate Understanding Explain Scientific Causation Rephrasing Vocab. Meaning Describe Classify into Scientific Group 	✓	✓	✓	✓	✓	✓	✓	✓
LEVEL 3 Application	<ul style="list-style-type: none"> Application to Own Life Model Scientific Process Organize and Classify Facts Utilize Alternative Research Tools 	✓	✓	✓	✓	✓	✓	✓	✓
LEVEL 4 Analysis	<ul style="list-style-type: none"> Distinguish Roles/Meanings Make Inferences Draw Conclusions Based on Facts Provided Classify Based on Facts Researched 		✓	✓		✓	✓	✓	✓
LEVEL 5 Synthesis	<ul style="list-style-type: none"> Compile Research Information Design and Application Create and Construct Imagine Self in Scientific Role 		✓	✓	✓		✓	✓	✓
LEVEL 6 Evaluation	<ul style="list-style-type: none"> State and Defend an Opinion Justify Choices for Research Topics 							✓	✓

Based on Bloom's Taxonomy



Light Energy

1. Put a check mark (✓) next to the answer that is most correct. Use a dictionary to help you.

a) What does "ultraviolet" mean?

- A pale violet
- B very violet
- C before violet
- D beyond violet

b) If light can pass through something, we say the thing is _____

- A absorbent
- B conductive
- C reflective
- D transparent

c) What does "refracted" mean?

- A absorbed
- B bent
- C bounced
- D transferred

SAMPLE

2. Circle **T** if the statement is TRUE or **F** if it is FALSE.

- T F a) Reflected means bounced.
- T F b) Each color of light is a different wavelength.
- T F c) Green objects absorb green light.
- T F d) Rainbows are caused by refraction.
- T F e) Light can travel across empty space.



Comprehension Quiz



Part A

Circle **T** if the statement is **TRUE** or **F** if it is **FALSE**.

- T F** 1) Potential energy is the energy of motion.
- T F** 2) Potential energy can be used to do work.
- T F** 3) A material has thermal energy because its particles are moving.
- T F** 4) When thermal energy is transferred, it is called heat.
- T F** 5) Sound can travel across empty space.
- T F** 6) Visible light is a form of electromagnetic radiation.
- T F** 7) Natural gas is a renewable source of energy.



Part B

Put a check mark next to the answer that is most correct.

1) Where is chemical energy stored?

- A in convection currents
- B in stretched molecules
- C in the motion of particles
- D in the bonds between atoms

2) Which is a problem with nuclear energy?

- A Nuclear waste is hard to get rid of.
- B Nuclear fuel is quickly running out.
- C Nuclear power plants pollute the air.
- D Nuclear power is the most expensive energy source.

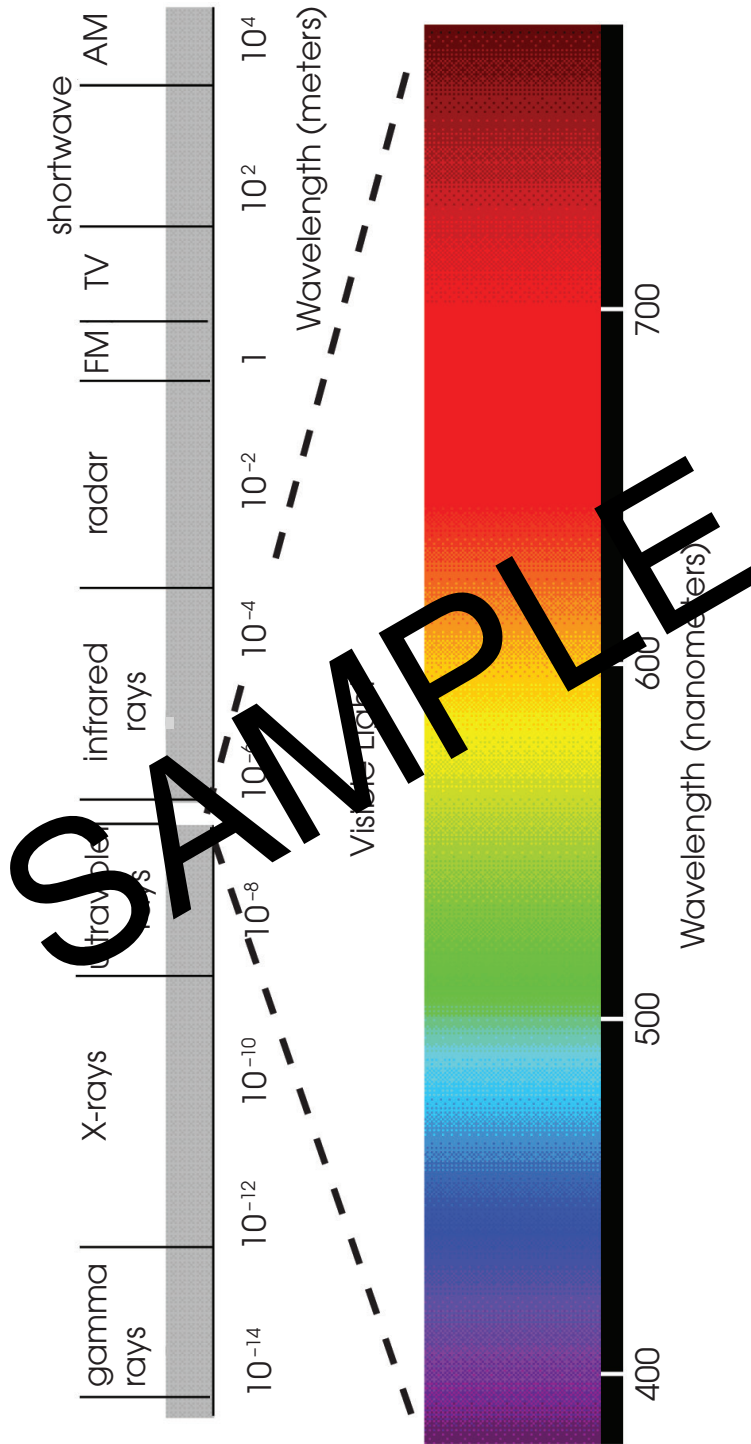
3) What does temperature measure?

- A the speed of heat transfer
- B the amount of heat in an object
- C the total energy of all molecules
- D average kinetic energy of particles



SUBTOTAL: /10

Electromagnetic Spectrum



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