



Grade 6: Chapter 3 Test – Energy and Work

Student Name		Class		Date	
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MULTIPLE CHOICE QUESTIONS:

1	You see a kite start to fly because heat has been transferred to it.	
	A	True
	B	False

2	When you see a change in the environment you know that _____ has been transferred.	
	A	heat
	B	energy
	C	force
D	motion	

3	A shirt stuck in the tree has _____ energy.	
	A	potential
	B	kinetic
	C	chemical
D	thermal	

4	When you go camping, the campfire produces _____ and _____ energy.	
	A	kinetic and potential
	B	radiant and thermal
	C	electrical and thermal
D	chemical and radiant	

5	What form of energy is in fossil fuels?	
	A	nuclear
	B	chemical
	C	radiant
D	Electrical	



Grade 6: Chapter 3 Test – Energy and Work

6	Which one of the following is NOT an example of work being done?	
	A	lifting a book bag off the floor
	B	pushing a box from the bottom of a hill to the top of the hill
	C	pulling a sled across a field covered with snow
D	the Moon orbiting the Earth	

7	To calculate work, force is multiplied by _____.	
	A	muscle
	B	energy
	C	distance
D	gravity	

8	Which is true of energy?	
	A	It cannot be transformed
	B	It cannot be transmitted
	C	It cannot be destroyed
D	It cannot change matter	

9	Which form of energy is NOT carried by waves?	
	A	radiant
	B	chemical
	C	seismic
D	sound	

10	Work is measured in Joules.	
	A	True
B	False	



Grade 6: Chapter 3 Test – Energy and Work

EXTENDED RESPONSE QUESTIONS:

11	What is energy? List 2 sources of energy?	marks:	/3
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12	List three types of energy.	marks:	/3
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13	How does the sun's energy reach earth?	marks:	/3
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14	What happens when you lift an object? (in terms of energy)	marks:	/3
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15	Finish the statement. The law of conservation states that energy can be.....	marks:	/3
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MULTIPLE CHOICE SECTION:	/10
EXTENDED RESPONSE SECTION:	/15
TOTAL MARKS:	/25
PERCENT:	%

Grade	6	Lesson(s)	3.1, 3.2
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Answer Key

MULTIPLE CHOICE QUESTIONS:

Q1	B
Q2	B
Q3	A
Q4	B
Q5	B
Q6	D
Q7	C
Q8	C
Q9	B
Q10	A

EXTENDED RESPONSE QUESTIONS:

Q11	Ans: The ability to cause a change. Sources of energy: wind, coal, nuclear fuel, earth's interior, the sun. 1 Marks: Mentions 1 of the following - Uses ability, cause and change in their explanation of energy; lists two of the following – wind, coal, nuclear fuel, earth's interior, the sun.	
	2 Marks: Mentions two of the following - Uses ability, cause and change in their explanation of energy; lists two of the following – wind, coal, nuclear fuel, earth's interior, the sun.	3 Marks: Mentions 3 of the following - Uses ability, cause and change in their explanation of energy; lists two of the following – wind, coal, nuclear fuel, earth's interior, the sun.
Q12	Ans: Kinetic, electric, potential, chemical, nuclear, mechanical, thermal, geothermal, sound, seismic, radiant 3 Marks: 3 examples	
	2 Marks: 2 examples	1 Mark: 1 example
Q13	Ans: The sun's energy is transmitted by electromagnetic waves.	
	3 Marks: Mentions suns energy, transmission and electromagnetic waves.	2 Marks: Mentions 2 of the following - suns energy, transmission and electromagnetic waves. 1 Mark: Mentions 1 of the following - suns energy, transmission and electromagnetic waves.
Ans: You transfer energy from your body to the object.		



Grade 6: Chapter 3 Test – Energy and Work

Q14	3 Marks: Mentions the body, transmission and the object.	2 Marks: Mentions 2 of the following - the body, transmission and the object. 1 Mark: Mentions 1 of the following - the body, transmission and the object.
Q15	3 Marks: Mentions can be transformed, cannot be created, and cannot be destroyed.	2 Marks: Mentions 1 of the following - can be transformed, cannot be created, and cannot be destroyed. 1 Mark: Mentions 1 of the following - can be transformed, cannot be created, and cannot be destroyed.