

Thermal Energy, Temperature, and Heat

Directions: In the puzzle below, each number will correspond to one letter of the alphabet. For example, 14 = I. Shaded letters will not be used. Crack the code by using the clues for hints. After you read the clues and fill in the blanks, complete the chart with the number that corresponds to each letter you have used.

A	B	C	D	E	F	G	H	I	J	K	L	M
								14				

N	O	P	Q	R	S	T	U	V	W	X	Y	Z

1. the energy an object has because it is moving

$\frac{7}{7}$ $\frac{I}{14}$ $\frac{3}{3}$ $\frac{4}{4}$ $\frac{13}{13}$ $\frac{I}{14}$ $\frac{1}{1}$ $\frac{4}{4}$ $\frac{3}{3}$ $\frac{4}{4}$ $\frac{5}{5}$ $\frac{12}{12}$ $\frac{8}{8}$

2. the sum of the kinetic and potential energy of all the particles that make up an object

$\frac{13}{13}$ $\frac{6}{6}$ $\frac{4}{4}$ $\frac{5}{5}$ $\frac{9}{9}$ $\frac{2}{2}$ $\frac{15}{15}$ $\frac{4}{4}$ $\frac{3}{3}$ $\frac{4}{4}$ $\frac{5}{5}$ $\frac{12}{12}$ $\frac{8}{8}$

3. use a thermometer to measure this

$\frac{13}{13}$ $\frac{4}{4}$ $\frac{9}{9}$ $\frac{11}{11}$ $\frac{4}{4}$ $\frac{5}{5}$ $\frac{2}{2}$ $\frac{13}{13}$ $\frac{16}{16}$ $\frac{5}{5}$ $\frac{4}{4}$

4. energy stored in an apple hanging from a tree

$\frac{11}{11}$ $\frac{10}{10}$ $\frac{13}{13}$ $\frac{4}{4}$ $\frac{3}{3}$ $\frac{13}{13}$ $\frac{I}{14}$ $\frac{2}{2}$ $\frac{15}{15}$
 $\frac{4}{4}$ $\frac{3}{3}$ $\frac{4}{4}$ $\frac{5}{5}$ $\frac{12}{12}$ $\frac{8}{8}$

5. when you enter a warm home on a cold day, you can feel this

$\frac{6}{6}$ $\frac{4}{4}$ $\frac{2}{2}$ $\frac{13}{13}$