

2022-23 Pentathlon Curriculum Updates

In the *Social Science Resource Guide*, on page 46, in the second column, the third line of the third paragraph should read: “relationship between the colonies and **Great Britain**...”

In the Science Resource Guide, on page 11, in the second column, the paragraph should read “For an element with two isotopes, such as natural chlorine, which has 75 percent $^{35}_{17}\text{Cl}$ atoms and 25 percent $^{37}_{17}\text{Cl}$ atoms, we can use the following formula to determine the weighted average of a mass of a chlorine atom: weighted average mass of a chlorine atom = $(0.75 \times \text{mass } ^{35}_{17}\text{Cl atom}) + (0.25 \times \text{mass } ^{37}_{17}\text{Cl atom})$ ”

In the Fine Arts Resource Guide, on page 26, in the Listening guide 1: “Springfield Mountain”, in verse 4, the following sentence should read “His voice was **heard** both far and near”.

In the Math Resource Guide on page 5, example 1.1B should read as follows:

EXAMPLE 1.1B: Identify each root as either rational, irrational, or not real.

1. $\sqrt{3}$
2. $\sqrt[3]{-8}$
3. $-\sqrt{36}$
4. $\sqrt[4]{-16}$

SOLUTION:

1. Irrational
2. Rational
3. Rational
4. Not a real number

In the Math Resource Guide on page 8, 1.2C should read as follows:

$\frac{1}{x^{-n}} = x^n$	$\left(\frac{x}{y}\right)^{-n} = \left(\frac{y}{x}\right)^n$	$\frac{x^{-m}}{y^{-n}} = \frac{y^n}{x^m}$
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