

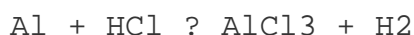
# THE ULTIMATE CHEMICAL EQUATIONS HANDBOOK ANSWERS

## CHAPTER 6

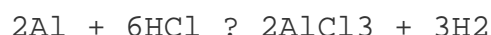
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### The Ultimate Chemical Equations Handbook Answers: Chapter 6

**Question 1:** Balance the following equation:



**Answer:**



**Question 2:** What is the theoretical yield of sodium chloride in grams when 10.0 g of sodium reacts completely with 10.0 g of chlorine?

**Answer:**



$$\begin{aligned}\text{Mass of NaCl} &= (10.0 \text{ g Na} \times 58.44 \text{ g NaCl} / 22.99 \text{ g Na}) + (10.0 \text{ g Cl} \times 58.44 \text{ g NaCl} / 70.90 \text{ g Cl}_2) \\ &= 58.44 \text{ g NaCl} + 16.29 \text{ g NaCl} \\ &= 74.73 \text{ g NaCl (theoretical yield)}\end{aligned}$$

**Question 3:** A sample of calcium carbonate ( $\text{CaCO}_3$ ) weighing 0.500 g is reacted with excess hydrochloric acid ( $\text{HCl}$ ). What mass of carbon dioxide ( $\text{CO}_2$ ) is produced?

**Answer:**



$$\begin{aligned}\text{Mass of CO}_2 &= (0.500 \text{ g CaCO}_3 \times 44.01 \text{ g CO}_2 / 100.09 \text{ g CaCO}_3) \\ &= 0.220 \text{ g CO}_2\end{aligned}$$

**Question 4:** What volume of 0.250 M potassium hydroxide (KOH) solution is required to neutralize 20.0 mL of 0.500 M sulfuric acid (H<sub>2</sub>SO<sub>4</sub>)?

**Answer:**



$$\text{Moles of H}_2\text{SO}_4 = 0.0200 \text{ L} \times 0.500 \text{ M} = 0.0100 \text{ mol}$$

$$\text{Moles of KOH required} = 2 \times 0.0100 \text{ mol} = 0.0200 \text{ mol}$$

$$\text{Volume of 0.250 M KOH} = 0.0200 \text{ mol} / 0.250 \text{ M} = 0.0800 \text{ L} = 80.0 \text{ mL}$$

**Question 5:** A gas sample occupies a volume of 2.50 L at 298 K. If the temperature is raised to 373 K while the pressure remains constant, what is the new volume of the gas?

**Answer:**

$$V_1/T_1 = V_2/T_2$$

$$\begin{aligned}V_2 &= (2.50 \text{ L} \times 373 \text{ K}) / 298 \text{ K} \\ &= 3.18 \text{ L}\end{aligned}$$

**What engine is in a Kobelco sk210?**

**How much can a Kobelco 210 lift?** The new KOBELCO SK210LC-11 H&W is equipped with a Yanmar Tier IV Final compliant engine which has a higher torque value providing bucket digging force of 35,300 lbs and lifting capacity of 18,880 lbs.

**What engine is in a Kobelco excavator?** Kobelco manufactures all kind of excavators. This Japanese company supplies excavators, mini excavators and cranes, making use of a wide variety of diesel engines from Mitsubishi, including the 6D Fuso diesel engine. The Mitsubishi Fuso 6D16 engine is used in many different types of KOBELCO excavators.

**Is Kobelco a good excavator?** While with Kobelco, their excavators are high quality, however some parts and components are sourced elsewhere. This may not

be a huge deal, but it's worth pointing out for any future maintenance or breakdown servicing requirements.

**Are KOBELCO excavators made in China?** Chengdu Kobelco Construction Machinery Co., Ltd. is established as an excavator manufacturing and sales company in China.

**Who makes KOBELCO engines?** In addition, Isuzu is supplying engines for Kobelco's CK 800, CK 850, CK 1100, CK 1200, CK 1600, CK 2000, and CK 2750 crawler cranes. Kobelco notes that most of the Kobelco models will have increased horsepower with the Yanmar and Isuzu engines.

**How deep can a 210 excavator dig?**

**How much can a 210 excavator lift?** Operating weight 23 313 - 24 440 kg 51,397 - 53,882 lbs. Max lift capacity 18 500 kg 40,850 lbs.

**How much can a 7000 lb excavator lift?** 7,000-8,999 lbs. Mini-Excavator, ROPS for loading high-sided trucks. The boom accepts many attachments and can lift loads of up to 2866 lbs. in the straight-ahead position.

**Who bought KOBELCO?** Takeuchi has agreed to purchase the former KOBELCO plant in Moore, South Carolina, for \$34.35 million. Nikkei Asia reports that Takeuchi expects the deal to boost its production capacity for the U.S. market by about 40 percent.

**Who is the mother company of KOBELCO?** Kobelco has a long heritage spanning more than 80 years. Its parent company, Kobe Steel Ltd., built Japan's first construction machine in 1930.

**Are New Holland and KOBELCO the same?** Fiat acquired O&K, a construction equipment manufacturer based in Germany, in 1998, and partnered with Kobelco in 2002 to develop crawler excavator technologies. In 2005, Fiat, Fiat-Allis, Fiat-Kobelco, New Holland, and O&K merged into one group under the New Holland Construction label.

**What is the best selling excavator in the world?** When it comes to excavators, the Cat 336 and 315 are at the top of most people's lists. These models are

preferred favorites among builders thanks to their high performance and efficiency. Beyond the Cat 336 and 315, several other models top the sales lists.

**What brand of excavator is best?**

**What is the life expectancy of an excavator?**

**Are KOBELCO machines any good?** Kobelco is undoubtedly a top brand when it comes to excavators. This is largely due to their commitment and focus on manufacturing only excavators that are strong, reliable, and highly valuable for their owners.

**Are Komatsu and KOBELCO the same?** Both Komatsu & Kobelco have unique and different specifications. Both these excavators are beautifully designed and are of great use. Komatsu provides good maintenance and is more cost-effective whereas Kobelco is a great machine that will go the distance.

**Why is KOBELCO yellow in USA?** The continued use of the yellow color scheme was a strategic move, reflecting a blend of market familiarity and dealer preference, ensuring a smoother transition in a market already accustomed to the yellow KOBELCO machines. This is basically why KOBELCO is yellow in the US, contrary to its signature blue elsewhere.

**Is KOBELCO a Japanese company?** (?????????, Kabushiki gaisha K?be Seik?-sho), is a major Japanese steel manufacturer headquartered in Ch??-ku, Kobe. KOBELCO is the unified brand name of the Kobe Steel Group.

**What is the meaning of KOBELCO?** KOBELCO is the unified brand name of the Kobe Steel Group. The Kobe Steel Group offers distinctive, trustworthy products and technologies in a wide variety of fields, including iron and steel, welding, aluminum and copper, machinery, engineering, construction machinery and electric power.

**Which excavators are made in the USA?** Excavator Manufacturers In USA Apart from Caterpillar and John Deere, there are many other local brands of excavator in the United States, for instance, Terex, Bobcat, JLG, etc.

**What size excavator do I need to dig a foundation?** Key takeaway: Three- to five-ton excavators are used in construction for trenching up to 12 feet, digging

foundations and clearing out job sites to prepare for further work.

**How deep can a 1.7 t excavator dig?** The maximum digging depth of a Kubota U17-3 1.7 tonne Excavator is 2310mm.

**Can you dig a hole with an excavator?**

**What engine is in a Panther Lima?** The Panther Lima was a retro-styled roadster of the 1970s built by Panther Westwinds. It used Vauxhall Viva and Magnum mechanicals, including that car's 2.3 L (2279 cc) engine.

**What is the fuel consumption of KOBELCO SK210?** Depending on the exhaust temperature and the job site the Kobelco uses about 3-4% urea of the fuel consumption quantity. So for example for the new SK210-10 (320 Liter fuel tank) - with a average fuel consumption of 10,5 Liter per hour - you only need to refuel AdBlue approximately every 180 hours of operation.

**What engine does case excavator use?** New FPT Industrial engines bring CASE E Series excavators even more power, performance and fuel efficiency!

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**How much horsepower does the Panther solo have?**

**What is a black panther car?** Any MCU fans likely remember the epic car chase scene in the first Black Panther film featuring the title character riding on top of a Lexus LC 500 coupe.

**What size engine was in a panther tank?** Starting in May 1943, Panthers were built using the 700 metric horsepower (690 hp, 515 kW) at 3,000 rpm, 23.1 litre Maybach HL 230 P30 V-12 petrol engine. To save aluminium, the light alloy block used in the HL 210 was replaced by a cast iron block.

**How deep is the Kobelco SK210 digging?**

**How much fuel does a 210 excavator use per hour?** Average fuel consumption: 4 to 6 gallons per hour. It is also highly efficient, with an estimated fuel cost per hour of only \$24. But also note that fuel consumption in the John Deere 210G LC Excavator can be significantly influenced by various factors.

**What is the bucket capacity of SK210?** 20,800 kg 160HP Kobelco SK210 LC-8, Maximum Bucket Capacity: 0.7-1.05 m<sup>3</sup>.

**Who makes Kobelco excavator engines?** Yanmar will supply engines for the SK170, SK210, SK230SR, SK260, and the SK270SR KOBELCO excavator models. In addition, Isuzu will supply engines for the SK300, SK350, SK380SR, SK390, and the SK500 excavator models.

**Who builds John Deere excavators?** Moline, Illinois (June 14, 2022) — Today, John Deere announced an expanded relationship with Wacker Neuson, a leading manufacturer of compact and construction machines, for 0-9-metric-ton excavators, to include North America.

**Is Bobcat and excavator the same?** An Excavator is a completely different machine, It, has a boom like an arm extension, which has the bucket attached to it, you can use this attach different buckets/hammers/argues/ripper attachments etc, like the bobcat you can hire these excavators in different sizes.

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## Strategic Management: A Competitive Advantage Approach (14th Edition)

### Question and Answer

#### 1. What is strategic management?

Strategic management is the process of developing and implementing strategies to achieve organizational goals. It involves understanding the organization's strengths, weaknesses, opportunities, and threats (SWOT), and aligning its resources with its long-term objectives.

#### 2. What does the competitive advantage approach focus on?

The competitive advantage approach emphasizes the importance of creating and sustaining a competitive advantage over rivals. Strategic managers analyze industry dynamics, identify customer needs, and develop unique strategies to differentiate their organizations from competitors.

#### 3. What is the difference between strategy and tactics?

Strategy is a long-term plan that outlines the organization's overall direction and goals. Tactics are specific actions or initiatives that are taken to implement the strategy. Tactics may change over time, while strategy should remain consistent with the organization's mission and vision.

#### 4. What are the five key concepts of strategic management?

The five key concepts of strategic management are:

- **Vision:** The organization's long-term aspiration.
- **Mission:** The organization's purpose and reason for being.
- **Core values:** The fundamental principles that guide the organization's behavior.
- **Objectives:** Specific goals that the organization aims to achieve.
- **Strategies:** The plans that outline how the organization will achieve its objectives.

## 5. What is the importance of strategic management?

Strategic management provides organizations with a framework for making informed decisions and aligning their actions with their long-term goals. It helps them adapt to changing market conditions, anticipate competitive threats, and seize opportunities for growth and success.

### The Gamification of Learning and Instruction: Fieldbook Ideas into Practice

**Question 1: What is gamification in education? Answer:** Gamification is the use of game elements and techniques in non-game contexts, such as education, to enhance engagement, motivation, and learning outcomes. These elements can include points, badges, leaderboards, and challenges.

**Question 2: Why is gamification important in education? Answer:** Gamification can make learning more engaging, motivate students to participate actively, and provide feedback on progress. Studies have shown that gamified learning experiences can improve student performance, retention, and overall attitudes towards learning.

**Question 3: How can I incorporate gamification into my classroom? Answer:** The "Gamification of Learning and Instruction Fieldbook" offers a wealth of practical ideas for implementing gamification in the classroom. These include creating game-based assignments, using game mechanics to reward participation, and incorporating competitive elements.

**Question 4: What are some specific fieldbook ideas I can implement? Answer:** Some popular fieldbook ideas include using points and badges to track student progress, creating virtual "quests" to engage students in learning tasks, and setting up challenges with leaderboards to foster friendly competition.

**Question 5: How can I evaluate the effectiveness of my gamified learning experience? Answer:** To assess the impact of gamification, monitor student engagement, participation, and learning outcomes. Collect both quantitative data (e.g., completion rates, scores) and qualitative feedback (e.g., student surveys, focus groups) to determine if gamification is enhancing the learning experience and achieving desired educational goals.

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