

# Minerals Unit

Preview is a compressed file

**Review Game**  
ANSWER VERSION  
Part 4  
Lesson 10  
Slidespark Science

**Fluorite**

A chipmunk is not a mineral because it is a living creature. Minerals must be inorganic.

Minerals are natural inorganic (non-living) solids that join together (crystals) to make unique compositions.

Lemonade is not a mineral.

This is a mineral.

Note: All mineral properties are the result from the arrangement of the minerals atoms.

**Carbon Atoms**

Gravity /

**Mass**  
Volume  
(mineral (grams))

Can use water to find volume of it. You will need to collect displaced water.

Name a use for **Plagioclase Feldspar**?  
Useful in the production of ceramics and glass.

Mineral	Chemical Formula	Crystal System	Crystal Habit	Color	Luster	Streak	Hardness	Specific Gravity	Other Properties
Quartz	$SiO_2$	Trigonal	Prismatic, fibrous	Colorless, white, pink, purple	Vitreous	White	7	2.65	Hardest natural mineral, piezoelectric
Calcite	$CaCO_3$	Rhombic	Rhombic, scalenohedron	White, colorless, pink, blue	Vitreous, pearly	White	3	2.71	Refractive index, birefringent
Fluorite	$CaF_2$	Cubic	Cubic, octahedron	White, colorless, purple, green	Vitreous	White	4	3.18	Fluorescent, piezoelectric
Pyrite	$FeS_2$	Cubic	Cubic, octahedron	Brassy yellow	Metallic	Black	6-6.5	5.0	Fracture, conchoidal
Hematite	$Fe_2O_3$	Rhombic	Prismatic, tabular	Black, dark red	Metallic	Black	6-6.5	5.3	Fracture, conchoidal
Graphite	$C$	Hexagonal	Hexagonal, prismatic	Black	Metallic	Black	1-2	2.2	Conductive, lubricant

cubes are not a mineral because they were man made. These ice blocks are minerals because they're naturally occurring.

Minerals are natural inorganic (non-living) solids that join together (crystals) to make unique compositions.

Note: There's some debate on ice being a mineral because its liquid when warm.



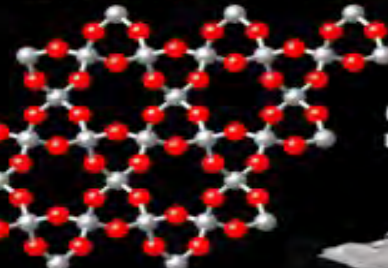
# Interactive Slideshows

- Processed and used as prefabricated wallboard or an industrial or building plaster.

1

# Gypsum

- Minerals also have a fixed chemical formula made of elements.
  - Quartz =  $\text{SiO}_2$  (S=Silicon O=Oxygen)



Quartz  
**SiO<sub>2</sub>**

**Note:** Not always the same color as the mineral.

**Atoms**  
**SiO<sub>2</sub>**

**Gray**  
Quartz



White

Min

**What are minerals made of?**

## Shape

Orthorhombic

Monoclinic

Triclinic

## Crystal Types For Minerals

**Tetragonal**

isometric

Hexagonal

partz

Mica

## Feldspar

MINERAL NAME	ORIGIN/LOCALITY	WEIGHT (g)	COLOUR	STREAK	HARDNESS	CRYSTAL FORM	IDENTIFICATION
	No Luster						
	No Luster						
	High Luster						
	Sometimes						
	No Luster						
	No Luster						
	Slight gloss						
	Glossy Luster						

What is the chemical composition of the mineral **pyrite**?

**Fe<sub>2</sub>O<sub>3</sub> Iron Oxide**

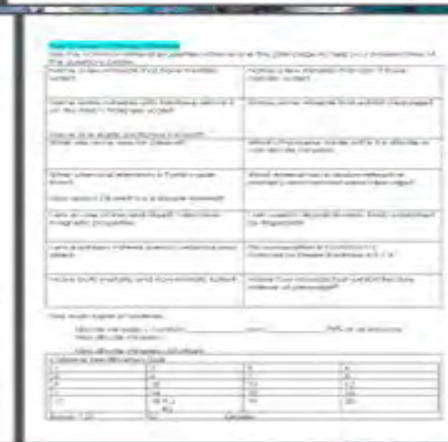
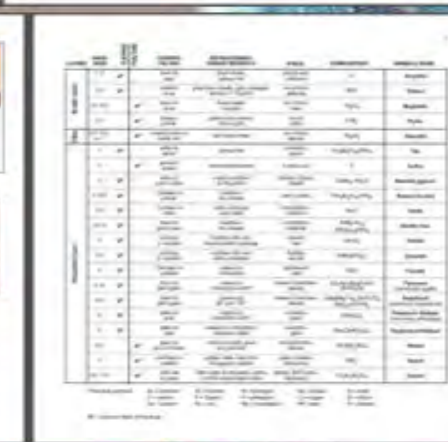
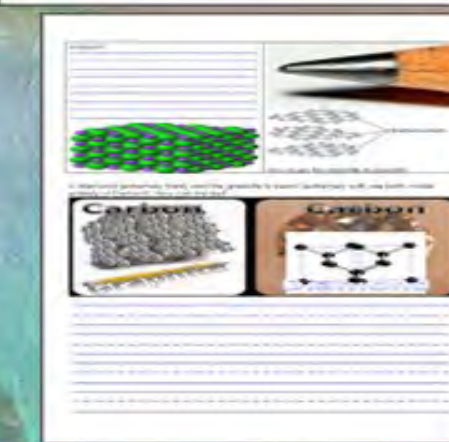
predict which might  
silicate mineral. Look  
position, and find Si.  
missing it is probably a  
te mineral  
in, O = Oxygen

**Silicate**

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100
101	102	103	104	105	106	107	108	109	110
111	112	113	114	115	116	117	118	119	120
121	122	123	124	125	126	127	128	129	130
131	132	133	134	135	136	137	138	139	140
141	142	143	144	145	146	147	148	149	150
151	152	153	154	155	156	157	158	159	160
161	162	163	164	165	166	167	168	169	170
171	172	173	174	175	176	177	178	179	180
181	182	183	184	185	186	187	188	189	190
191	192	193	194	195	196	197	198	199	200
201	202	203	204	205	206	207	208	209	210
211	212	213	214	215	216	217	218	219	220
221	222	223	224	225	226	227	228	229	230
231	232	233	234	235	236	237	238	239	240
241	242	243	244	245	246	247	248	249	250
251	252	253	254	255	256	257	258	259	260
261	262	263	264	265	266	267	268	269	270
271	272	273	274	275	276	277	278	279	280
281	282	283	284	285	286	287	288	289	290
291	292	293	294	295	296	297	298	299	300
301	302	303	304	305	306	307	308	309	310
311	312	313	314	315	316				



# Follow Along Bundle



15 Pages




# Activities, Assessments, Review, Games, and more all built-in

- Activity! Create a human crystal.
  - Teacher assigns students one at a time to create some form of atomic structure by laying on the floor and using your arms and legs to form a crystal.



**Graphite**

...e grouped together by



molecular crystals, molecules are joined together by weak Van der Waals forces. These substances have low melting points and boiling points.

- Which minerals are **Felsic** and which are characterized **Mafic**?

1



**Feldspar**

2



**Amphibole**  
High in heavier elements

3



**Pyroxene**  
High in heavier elements

4

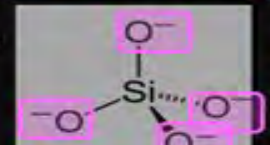


**Quartz**

- Silicate Minerals: Contains silica and oxygen. 75% of all minerals.

**Some Silicate Minerals Which are the big 3?**

Silicate is a chemical term for the group of a single atom of silicon surrounded by four atoms of oxygen, or  $\text{SiO}_4$



- Name these two minerals?



This mineral is a magnesium iron silicate. Common mineral in the earth's surface.

**Olivine**



An important rock forming mineral. A major mineral in the rock basalt.

**Pyroxene**

MINERAL	APPEARANCE	TRANSPARENCY	HAZARD	COLOUR	STREAK	PHOSPHOR	TOUCH
Quartz	No Luster	Translucent	Fracture				
Calcite	Translucent to Transparent	Double Refraction	Cleavage				
Pyrite	High Luster	Opaque	Fracture				
Hematite	Opaque	Fracture					
Sulfur	No Luster	Fracture					
Feldspar	No Luster	Typically Opaque	Cleavage				
Halite	Slight gloss	Transparent	Cleavage				
Mica	Glossy Luster	Fracture					

**Cleavage**



**Fracture**



20

**Halite**



...equal in length and at 90° other.)



**"The harder mineral is harder than that which has been scratched."**

Soft – Mineral shows scratch  
Hard – Mineral does not show scratch





# Minerals, Crystals, Uses of Minerals, Types of Crystals, Atomic Bonding, Physical Properties of Minerals, Primary Minerals, Mineral Properties Lab, Common Mineral Identification



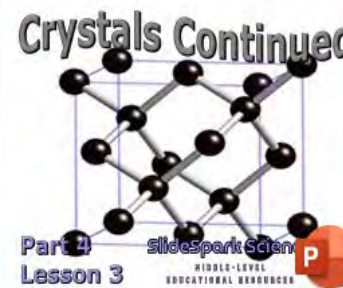
Additional and Printables



Part 4 Lesson 1 Minerals



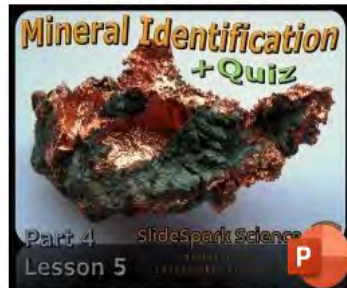
Part 4 Lesson 2 Crystals



Part 4 Lesson 3 Crystal Quiz Bonds



Part 4 Lesson 4 Primary Minerals



Part 4 Lesson 5 Mineral Identification



Part 4 Lesson 6 Mineral Answers Properties



Part 4 Lesson 7 Mineral Properties II



Part 4 Lesson 8 Properties Lab



Part 4 Lesson 9 Properties Quiz Wrap Up



Part 4 Lesson 10 Review Game



Part 4 Lesson 11 Answers to Review Game



Part 4 Minerals Work Bundle Digital



Part 4 Minerals Work Bundle Print Answers



Part 4 Minerals Work Bundle Print



# SlideSpark Science



## MIDDLE - LEVEL EDUCATIONAL RESOURCES

Interactive slideshows provide the roadmap for an amazing learning experience for students in grades 5-9. A Detailed set of work bundles chronologically follow the digital learning, providing a clear and intuitive roadmap to understanding. As the teacher or student advances through a slideshow, exciting hands-on activities, fantastic visuals, fill-in notes, review opportunities, video links, assessments, and much more are strategically placed throughout. Interactive learning unfolds step by step and supported by the work bundle to reach all types of learners. Everything you need to run to an amazing learning experience is provided in this one-of-a-kind science curriculum.



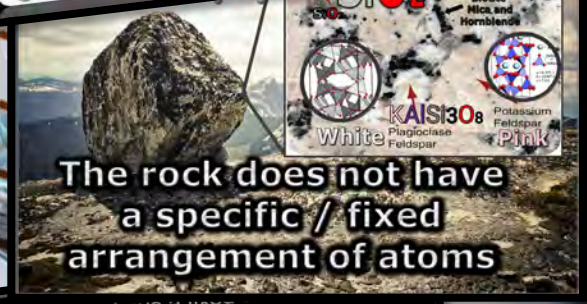
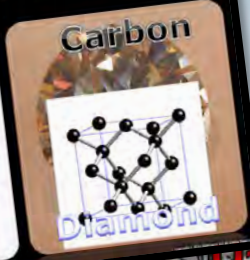
Each unit in the curriculum is designed to help teachers deliver the best possible learning experience for their students. Our interactive science slideshows are filled with questions and answers, important fill-in notes, hands-on activities, projects, games, built-in quizzes, and end of the unit assessment pieces. Students follow along with a work bundle that documents the entire learning experience for a fantastic review and assessment piece.

CLUSTER	MINERAL	COMMON OCCURRENCE	SYNTHETICALLY OBTAINABLE	PROPERTIES	COMPOSITION	MINERAL NAME
1	Quartz	Common in igneous, sedimentary, and metamorphic rocks.	Yes	Hard, brittle, no cleavage.	$\text{SiO}_2$	Quartz
2	Calcite	Common in sedimentary and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{CaCO}_3$	Calcite
3	Pyrite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{FeS}_2$	Pyrite
4	Hematite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{Fe}_2\text{O}_3$	Hematite
5	Galena	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{PbS}$	Galena
6	Fluorite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{CaF}_2$	Fluorite
7	Malachite	Common in metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{Cu}_2(\text{OH})_2(\text{CO}_3)$	Malachite
8	Stibnite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{Sb}_2\text{S}_3$	Stibnite
9	Asbestos	Common in metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{Si}_2\text{O}_5$	Asbestos
10	Pyrite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{FeS}_2$	Pyrite
11	Pyrite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{FeS}_2$	Pyrite
12	Pyrite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{FeS}_2$	Pyrite
13	Pyrite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{FeS}_2$	Pyrite
14	Pyrite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{FeS}_2$	Pyrite
15	Pyrite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{FeS}_2$	Pyrite
16	Pyrite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{FeS}_2$	Pyrite
17	Pyrite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{FeS}_2$	Pyrite
18	Pyrite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{FeS}_2$	Pyrite
19	Pyrite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{FeS}_2$	Pyrite
20	Pyrite	Common in igneous and metamorphic rocks.	Yes	Hard, brittle, cleavage.	$\text{FeS}_2$	Pyrite

What is the chemical composition of the mineral **Hematite**?

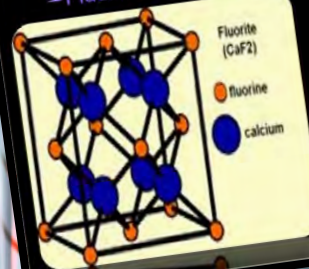
**$\text{Fe}_2\text{O}_3$**  **Iron Oxide**

• Note: All mineral properties are the result from the arrangement of the minerals atoms.



The rock does not have a specific / fixed arrangement of atoms

• Minerals also have a fixed formula made of elements.  
- Fluorite: Calcium = Ca, Fluorine =  $\text{F}_2$

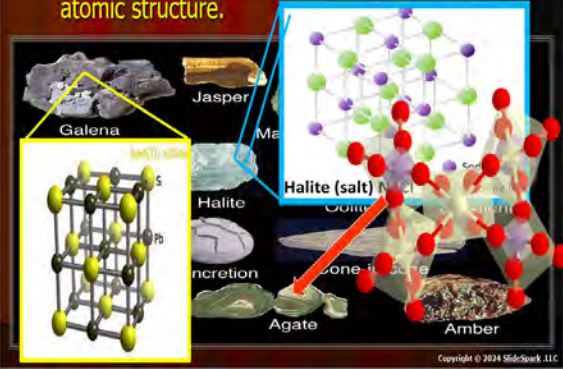


**Fluorite**  
 **$\text{CaF}_2$**





- Minerals are natural inorganic (non-living) solids that join together to make crystals and unique compositions.
- Must have a fixed chemical formula and specific atomic structure.



Red Slide Notes: Help students record important information in a fun and easy-to-understand way. Designed red-colored slides contain a few pieces of crucial information that students must record into their work bundle to complete the notes. Students will use these important notes throughout the work bundle.



The set-up of the slideshows are designed to make learning fun and interactive for students. With a mix of questions and answers, teachers can use these slides to get their students thinking and actively participating in their education. Plus, the answers are always revealed on the next slide, providing students with immediate feedback and helping teachers assess their understanding.

- Physical Property: A characteristic that can be observed or measured without changing the identity of the substance.

**How are these different?**

Try and think further than metal vs. plastic

- Physical Property: A characteristic that can be observed or measured without changing the identity of the substance.

**How are these different?**

- Physical Property: A characteristic that can be observed or measured without changing the identity of the substance.

**How are these different?**

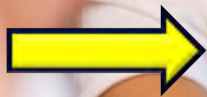
High Density (sinks)  
Conducts Heat and Electricity  
High Melting Point  
Luster / Shine  
Malleable and Ductile

- Physical Property: A characteristic that can be observed or measured without changing the identity of the substance.

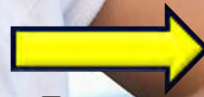
**How are these different?**

High Density (sinks)  
Conducts Heat and Electricity  
High Melting Point  
Luster / Shine  
Malleable and Ductile

Low Density (Floats)  
Doesn't Conduct Heat and Electricity  
Low Melting Point  
Dull  
Not Malleable or Ductile



**Next Slide**

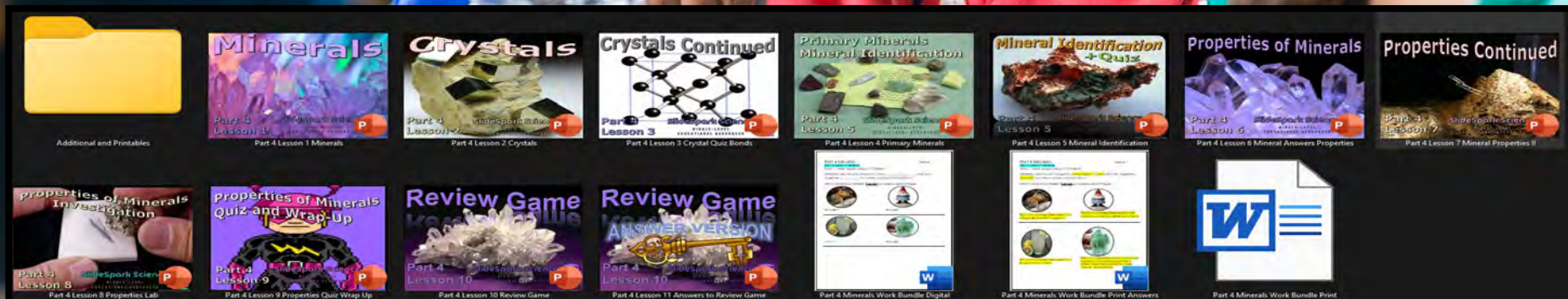


**slideshow supports  
Work Bundle**



# Lesson Planning

Daily lessons space exciting hands-on activities, red slide notes, video and academic links, projects, simulations, readings, built-in quizzes, and review opportunities throughout the slideshows. A typical day may have many different learning styles being targeted. Daily lesson planning becomes advancing through the slideshow roadmap the night before. Each lesson is roughly 50 minutes, but sometimes things can speed up or slow down. The best strategy is just to go at your classes own pace. The work bundle chronologically follows the interactive slideshow and you can always spend extra time assessing the quality of the writing within. If you don't quite finish a lesson, you can always pick it up the next day where you left off. The only real trick in timing is not starting a larger activity if you don't have the available time to complete. The slideshows have been designed to be a low stress, go at your classes own pace experience. Most activities are designed to be cost effective, using general materials that can be gathered from your local stores.



One clear, organized bundle guides students through notes, review, and assessments with ease.

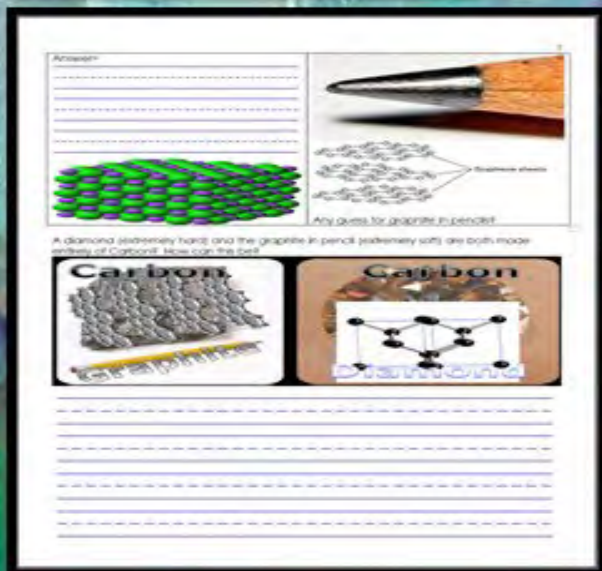


# Follow Along Work Bundle

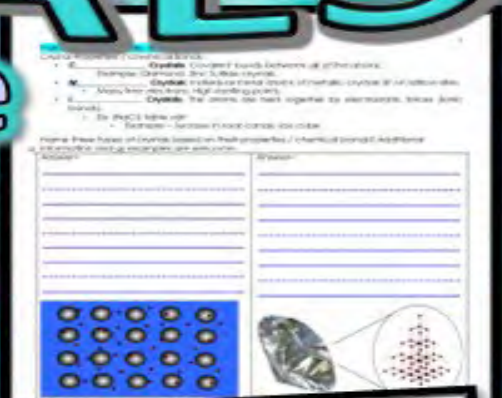
Each science unit comes with several work bundles. The bundles should be printed before the unit begins and distributed to the students on the first day of the unit. The work bundles will be due shortly after the completion of the unit. The work bundle will become a resource for the review games, crossword puzzles, and will be collected for assessment. The work bundle follows the entire learning experience and will be used every day. They are chronological to the lessons and provide places to record fill-in notes, answer questions, collect data, graph and much more. An answer version is provided that can be distributed to your support professionals. A digital version of the work bundle and some writable .pdf versions are provided if you want to go paperless. These work bundles are perfect for students looking for an easy and organized way to track their progress and stay on top of their studies.



# Work Bundle



# 20 Pages







1 Name: \_\_\_\_\_  
 2 Composition: K<sub>2</sub>O  
 3 Hardness: \_\_\_\_\_  
 4 Silicate Mineral: feldspar  
 5 Cleavage or Fracture: fractured  
 6 Luster: glassy or smooth  
 7 Uses: \_\_\_\_\_



1 Name: \_\_\_\_\_  
 2 Composition: FeO  
 3 Hardness: \_\_\_\_\_  
 4 Silicate Mineral: oxide  
 5 Cleavage or Fracture: fractured  
 6 Luster: metallic  
 7 Uses: \_\_\_\_\_



1 Name: \_\_\_\_\_  
 2 Composition: FeO  
 3 Hardness: \_\_\_\_\_  
 4 Silicate Mineral: oxide  
 5 Cleavage or Fracture: fractured  
 6 Luster: metallic  
 7 Composition: FeO



1 Name: \_\_\_\_\_  
 2 Composition: CaO  
 3 Hardness: \_\_\_\_\_  
 4 Silicate Mineral: feldspar  
 5 Cleavage or Fracture: fractured  
 6 Luster: metallic  
 7 Toxicity: low



1 Name: \_\_\_\_\_  
 2 Composition: CaO  
 3 Hardness: \_\_\_\_\_  
 4 Silicate Mineral: feldspar  
 5 Cleavage or Fracture: fractured  
 6 Luster: metallic  
 7 Uses: \_\_\_\_\_



1 Name: \_\_\_\_\_  
 2 Composition: FeO  
 3 Hardness: \_\_\_\_\_  
 4 Silicate Mineral: oxide  
 5 Cleavage or Fracture: fractured  
 6 Luster: metallic  
 7 Composition: FeO

Arrange the following minerals according to their Mohs hardness scale: \_\_\_\_\_ (1 = softest) \_\_\_\_\_ (10 = hardest)

Apatite, Gypsum, Quartz, Sphalerite, Calcite, Fluor, Topaz, Corundum, Feldspar, Biotite			
10	9	8	7
10. Apatite	9	8	7

**3. Properties of Mineral Identification Guide**

1	2	3	4
5	6	7	8
9	10	11	Grade

**Properties of Mineral Identification Guide - Act 3 of Minerals Teacher's Copy, not in class**

1	2	3	4
5	6	7	8
9	10	11	Grade

Use the pictures to describe some physical properties of minerals. Be specific and try and name the minerals.

The collage includes several circular images of mineral samples and a central photograph of a student's identification guide. The guide is titled 'Density, D = mass/volume' and lists various properties of minerals. The properties listed are: Color (various shades of brown, black, and green), Luster (various shades of brown, black, and green), Streak (various shades of brown, black, and green), Hardness (various shades of brown, black, and green), and Cleavage (various shades of brown, black, and green). The guide also includes a section for 'Density, D = mass/volume' and a section for 'Color (various shades of brown, black, and green)'. The collage also includes several circular images of mineral samples, including a yellow mineral, a black mineral, a brown mineral, a green mineral, and a blue mineral.





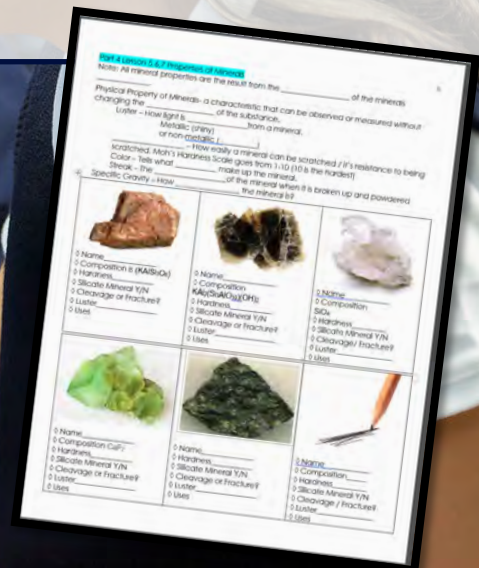


Source: <http://www.fishbase.org>



# Built-in Questions and Assessments

Many slides will have relevant terms covered with a box. When advancing through the slideshow an outline around the box will glow with a bright color. The next slide will make the box disappear. These slides allow the teacher to call upon students or table groups / check for understanding before advancing. The team at SlideSpark has found that using this technique helps to keep the students focused. Constantly recalling and reviewing information learned is necessary when moving through a large unit. The slideshows don't just give everything away for free. Students should be able to demonstrate knowledge before moving on. Some slides have full questions instead of just covered terms. In these slides, the teacher should encourage small group work. The teacher can then call upon one or two groups to share before advancing the slide. The next slide will always reveal the correct answer.





# Review Game / Assessments

Each of the 11 Units concludes with a review quiz. Answers are provided in slideshow form so students can self assess. A blank template sheet is provided in the work bundle. Students can benefit from working together in small table groups with quiet communication. You can decide if you want to allow the use of work bundles or not. These are a nice review opportunity and get the students looking through their work bundles for the answers.



Part 4 Minerals Review Game 10/11 Name: \_\_\_\_\_ 16

1-20 = 1 pt  
21-25 = 2 pts  
26-30 = 3 pts  
(Secretly write in correct answer #1 pt)  
Final Question = 5 pt wager

MINERALS 101	SHAPE-UP	PRETTY COLORS	PRIVATE PROPERTY	Minerals in MOVIES
1) <b>INORGANIC &amp; CRYSTALS</b>	6) <b>TRICLINIC</b>	11) <b>A and B Feldspar &amp; QUARTZ</b>	16) <b>HARDNESS SCALE</b> <small>(Mohs numbers 1-10)</small>	*21) <b>MOVIE ALADDIN</b>
2) <b>Letter G</b>	7) <b>HEXAGONAL</b>	12) <b>QUARTZ</b>	17) <b>LUSTER</b>	*22) <b>DOPEY</b>
3) <b>ATOMS</b>	8) <b>ISOMETRIC</b>	13) <b>MUSCOVITE MICA</b>	18) <b>STREAK</b>	*23) <b>EVERETT CITY WIZARD OF OZ</b>
4) <b>ORES</b>	9) <b>LETTER A</b>	14) <b>FELDSPAR</b>	19) <b>FRACTURE CLEAVAGE</b>	*24) <b>ONWARD</b>
5) <b>GEMS</b>	10) <b>SILICATE MINERALS</b>	15) <b>FLUORITE</b>	20) <b>HAUTE</b>	*25) <b>MALEFICENT</b>

Final Question Wager \_\_\_\_\_ / 5 Answer \_\_\_\_\_

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# MINERALS

## Quiz Game

- Note: All mineral properties are the result from the arrangement of the minerals atoms.



- This is another use of minerals? Gems



- Minerals are natural inorganic join together in crystals to form various compositions.



- Which minerals are characterized as felsic based on the pictures below. A and D



- be used for this purpose?







What type of minerals are shown below?

## Some Silicate Minerals

(Owl +1pt)

10



- Minerals are made from which of the following...

2

- A.) Weathering of rock over long periods of time.
- B.) Cooling of Magma.
- C.) Organic deposits in the sediment
- D.) Dissolved minerals in a liquid and through evaporation
- E.) Cubic Zirconia
- F.) A and C
- G.) B and D
- H.) E and H
- I.) K and L

- Which crystal below is Orthorhombic:

(All axis unequal in length, and  $90^\circ$  degrees from each other)?



9

- Name this type of crystal? Isometric

# Isometric

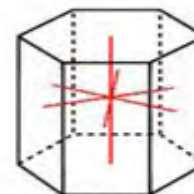
8



All sides equal, all  $90^\circ$

- Name this type of crystal? Hexagonal

7



Hexagonal Crystal

# Hexagonal



- Colorful mineral in light. Well known and prized for its glassy luster and rich variety of colors.

15



# Fluorite



- Name this mineral. It is the most abundant mineral on the face of the Earth?

12



# Quartz

- A rock-forming mineral. Industrially important in glass. Primary

14



# Feldspar

- Name this colorless to yellow primary mineral that has cleavage. It has no streak and a hardness of 2.5.  $\text{KAl}_2(\text{AlSi}_3\text{O}_{10})(\text{F},\text{OH})_2$

13

# Muscovite / Mica





This describes how easily a mineral can be scratched?

Talc = 1 Gypsum = 2 Calcite = 3 Fluorite = 4 Apatite = 5

Hardness 16

Orthoclase = 6 Quartz = 7 Topaz = 8 Corundum = 9 Diamond = 10

Moh's Hardness Scale

- This mineral has many unique properties. Name the mineral and at least one property.

20

Halite

- Which mineral below exhibits cleavage, and which exhibits fracture?

Fracture (Rough)

Cleavage (Smooth)

A



B



19

What physical property can be seen below?

Streak 8

- This property of minerals can be seen below?



17

Name the mineral, and two one other properties of minerals for the fake "Unobtainium" from the movie AVATAR

Answer: Galena Isometric Crystal





# Activities / Labs

Our science activities are designed to help students explore and understand complex scientific concepts in an engaging and interactive way. Each science unit includes several hands-on activities that encourage students to collect data and think critically about the world around them. Our easy-to-follow slideshow provides detailed visuals, simple materials, and clear directions, making it easy for both students and teachers to navigate the activities.

MINERAL	OBSERVATIONS	HARDNESS	COLOR	STREAK	TESTS	STRUCTURE	DENSITY
Calcite							
Pyrite							
Hematite							
Sulfur							
Fluorapatite							
Halite							
Mica							

Teacher will give you a bag of minerals

Try and place the mineral in the correct

**Specific Gravity / Density**

$$\text{Density} = \frac{\text{Mass}}{\text{Volume}}$$

Weight each mineral (grams). Your group can use water displacement to find volume of each mineral. You will need containers to collect displaced water and scales.

← Filled to very top  
← Measure displaced water ml

**Streak Plate**

Scratch each mineral in one nice line across the ceramic streak plate.

- What color is the streak?
- Does the streak differ from its color?

Our golden cube leaves a greenish streak.

white gold leaves a golden streak.

**Made of Heavier Elements**

**Fe<sub>2</sub>O<sub>3</sub>**

**Fe**  
Iron  
55.845

MINERAL NAME	OBSERVATIONS	HARDNESS	COLOR	STREAK	TESTS	STRUCTURE	DENSITY
Quartz	No Luster	5.5 - 7	Between steel knife and quartz	Whitish Pink	colorless	None	2.65
Calcite	Translucent to Double Refraction	3 - Can be scratched by fingernail	White / Clear	Colorless white	None	F a s t	2.71
Pyrite	High Luster	6 - Cannot scratch quartz	Gold / Yellow Brass	Green to Black	None	F a s t	4.95
Hematite	Sometimes Opaque	5.5 - 6 Scratch glass not quartz	Dark Red / Black Rust	Red to Black	None	M e d	5.3
Sulfur	No Luster	2 - Very Soft barely scratch fingernail	Bright Yellow	Yellow to White	Rotten Eggs	M e d	2.07
Feldspar	Typically Opaque	6 - 8/ steel knife and quartz	Whitish Pink	Colorless	None	S i l o w	2.6
Halite	Slight gloss Transparent	2.5 - Very Soft Fingernail	Clear Glossy	Colorless to white	None	F a s t	2.17
Mica	Glossy Luster Transparent	2.5	Clear Brown	Colorless	None	S l i a	2.8



# Built-in Assessment

This unit contains built-in assessments that students answer in their work bundle. With the question revealed before the answer, the teacher can easily call on individual students or table groups to respond. These provide an effective and efficient way for teachers to assess student learning.

- Quiz Wiz – Name the Mineral (1-20)
- +1 bonus question,
- + 1 if you spot the owl and write "owl" in the correct square. 🦉
- Complete in your homework bundle.

## QUIZ WIZ

- An iron sulfide often called "Fools Gold". Used to create a spark in ancient times. Used in paper today and to create sulfuric acid.



8

- An iron sulfide often called "Fools Gold". Used to create a spark in ancient times. Used in paper today and to create sulfuric acid.



8

## Pyrite

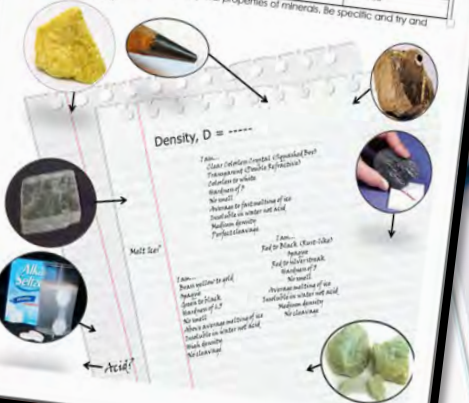
Properties of Mineral Identification Quiz

1	2	3	4
5	6	7	8
9	10	11	12

Properties of Mineral Identification Quiz – Actual Minerals. Teacher Choice, not in slideshow.

1	2	3	4
5	6	7	8
9	10	11	12

Use the pictures to describe some physical properties of minerals. Be specific and try and name the minerals.

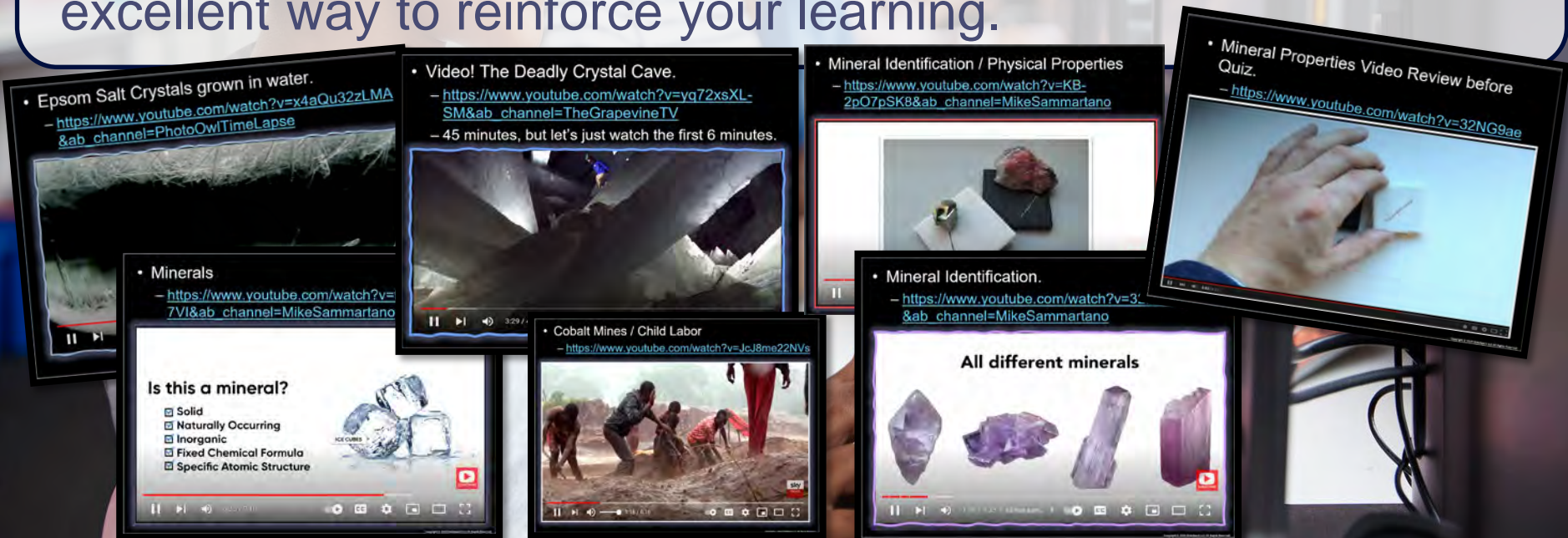


## Quiz in Work Bundle



# Built-in Video Links

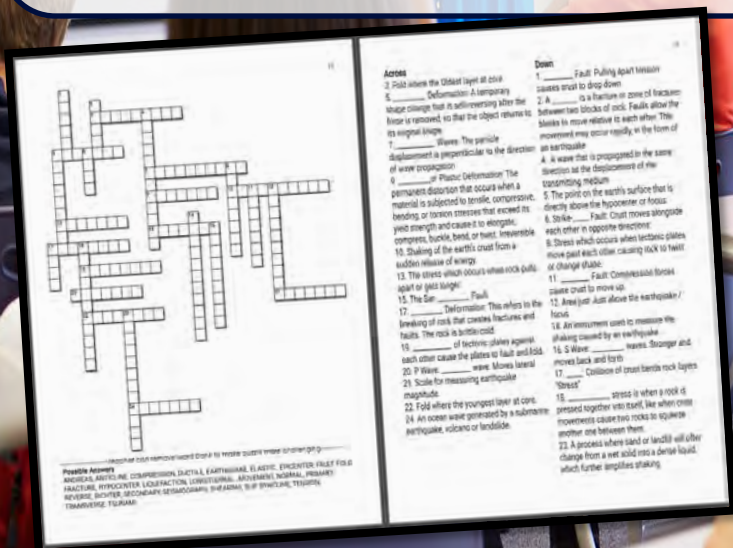
Our science education program is designed with the modern, multimedia learner in mind, and our video links are a perfect complement to our educational materials. These short clips are embedded into the slideshow at just the right places for a fantastic review. Whether you're studying biology, chemistry or physics, our video links are an excellent way to reinforce your learning.





# Games and Review

Games are a fantastic way for students to learn scientific concepts while having fun. We incorporate a variety of games into our curriculum, including interactive quizzes and puzzles that challenge students to think critically about the material. Our Hidden Box Games are a particularly popular feature, which conclude each unit by revealing a picture related to the topic. Students try to guess what the picture might be, making learning an engaging experience.

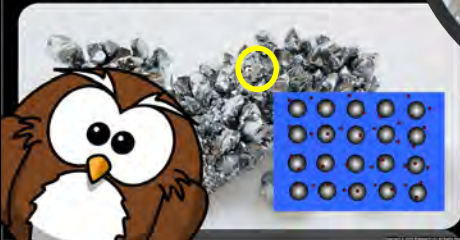




- Metallic Crystals: Individual metal atoms of metallic crystals sit on lattice sites.
  - Many free electrons. High melting points.



- Metallic Crystals: Individual metal atom  
metallic crystals sit on lattice sites.
  - Many free electrons. High melting points.



The Owl - Each Part of the slideshow has a small clipart Owl hiding somewhere in a slide. The owl is incredibly small and blended into just the right slide. If a student spots the “Owl” they can raise their hand high into the air. When you call upon the student they can say “Owl” and be the student who spotted the Owl. Each PowerPoint Review game also has an owl hiding in it worth one point. Remind the students that they secretly write the word “owl” rather than yell it out during the review games. The Owl search is not included in every lesson. A slide at the beginning of the lesson will alert the students that today is an “Owl” day. Everything arrives editable so delete if you wish. You will find that some students will become the expert owl hunters in the group.



# Google Classroom Compatible

Our digital learning programs are designed for students to learn science in a flexible and engaging environment. Our Google Classroom-compatible units provide a seamless learning experience whether your students are in the classroom or learning from home. Our step-by-step slideshows and student work bundles ensure that students can complete their work independently. The PowerPoint Slideshows and step-by-step work bundles can easily be loaded to your Google Drive and posted in your Google Classroom. These are great for daily lessons, students who need additional time, and for a student who was absent and looking to catch up in their work bundle.







### [Part 4 Lesson 8 Properties L...](#)

Google Slides



### [Part 4 Lesson 3 Crystal Quiz...](#)

Google Slides



### [Part 4 Lesson 1 Minerals](#)

Google Slides



### [Part 4 Lesson 10 Review Ga...](#)

Google Slides



### [Part 4 Lesson 2 Crystals](#)

Google Slides



### [Part 4 Lesson 5 Mineral Iden...](#)

Google Slides



### [Part 4 Lesson 4 Primary Min...](#)

Google Slides



### [Part 4 Lesson 9 Properties ...](#)

Google Slides



### [Part 4 Lesson 7 Mineral Pro...](#)

Google Slides



### [Part 4 Lesson 6 Mineral Ans...](#)

Google Slides



# GEOLOGY

## Mega Bundle

• Volcano: An opening in the earth's crust through which molten magma and gases erupt.

Minerals also have a fixed chemical formula made of elements.  
Fluorite: Calcium = Ca, Fluorine = F<sub>2</sub>

Fluorite: CaF2

• Which is a reverse / thrust fault?  
A Normal  
B Reverse

• Name the type of volcano depicted?  
A Strombolian  
B Icelandic  
C Shield  
D Cinder

### 6 Parts, 60 Lessons

## Hundreds of Amazing and Interactive Slides

Mantle: Composed of Magnesium Silicates, Iron, Calcium, Oxygen, Aluminum.  
Outer Mantle (asthenosphere)

Convergent Boundaries -> Crust is destroyed and recycled back into the interior of the earth. (subduction zone)  
One plate dives under another.

Which is a normal fault?  
A Normal  
B Reverse

This is a fast-moving avalanche of hot lava fragments?

### Fluorite

### Pyroclastic Flow

## Follow Along Bundles

Volcano: An opening in the earth's crust through which molten magma and gases erupt.

Minerals also have a fixed chemical formula made of elements.  
Fluorite: Calcium = Ca, Fluorine = F<sub>2</sub>

Fluorite: CaF2

Which is a reverse / thrust fault?  
A Normal  
B Reverse

Name the type of volcano depicted?  
A Strombolian  
B Icelandic  
C Shield  
D Cinder

### 6 Bundles, 100 Pages

## Assessments, Activities, Keys, Games and More

Volcano: An opening in the earth's crust through which molten magma and gases erupt.

Minerals also have a fixed chemical formula made of elements.  
Fluorite: Calcium = Ca, Fluorine = F<sub>2</sub>

Fluorite: CaF2

Which is a reverse / thrust fault?  
A Normal  
B Reverse

Name the type of volcano depicted?  
A Strombolian  
B Icelandic  
C Shield  
D Cinder

### The Rock Cycle

### Shale

### Pyroclastic Flow

### Fault

### Fold



# Geology Topics Unit

## Geology Unit

60 Lessons, (6<sup>th</sup>-8<sup>th</sup> Medium Difficulty) Part 1 Dynamic Earth, is 11 Lessons and 15 Page Work Bundle, Part 2 Volcanoes is 8 Lessons and 18 Page Work Bundle, Part 3 Earthquakes is 11 Lessons and 16 Page Work Bundle, Part 4 is Minerals 9 Lessons and 15 Page Work Bundle, Part 6 Rocks is 10 Lessons and 14 Page Work Bundle, Part 7 Earth System History is 8 Lessons and 9 Page Work Bundle



[Part 1: Geology Unit](#): Plate Tectonics, Uniformitarianism, Continental Drift, Evidence for Continental Drift, Pangea, Rodinia, Heat and Convection, Energy Waves, Layers of the Earth, The EM Field, Heat Transfer, Types of Crust, Plate Boundaries, Subduction Zones, Converging and Diverging Boundaries, Ring of Fire, Archipelagos, Transform Boundaries, Visual Quiz of Plate Boundaries with Answers, Box Game Review, Crossword Puzzle, End Unit Assessment with Answers so Students Can Self-Assess

[Part 2: Volcanoes](#): Hot Spots, Volcanoes, Super volcanoes, Yellowstone, Sidoarjo "Lusi" Mud Volcano Case Study, Pompeii, Positives and Negatives of Volcanoes, Types of Volcanoes, Parts of a Volcano, Hazards of Volcanoes, Lahar, Pyroclastic Flows, VEI Index, Magma, Types of Lava, Viscosity of Lava / Silica Content, Box Game Review, Crossword Puzzle, End Unit Assessment with Answers so Students Can Self-Assess

[Part 3: Earthquakes](#): Deformation, Types of Deformation, Faults, Folds, Types of Stress on Rock, Types of Faults, Lateral Faults, Types of Folds, Anticlines, Synclines, Energy Waves, Mechanical Waves, Body Waves, Surface Waves, Earthquakes, Moment Magnitude Scale, Richter Scale, Earthquake Case Study, Mercalli Scale, Epicenter, Finding an Epicenter, Earthquake Design, Design Challenge with a shake table, Tsunami, Tsunami Case Studies, Causes of Tsunami, Tsunami Warning Signs, Box Game Review, Crossword Puzzle, End Unit Assessment with Answers so Students Can Self-Assess

[Part 4: Minerals](#): Minerals, Crystals, Uses of Minerals, Types of Crystals, Atomic Bonding, Physical Properties of Minerals, Primary Minerals, Mineral Properties Lab, Common Mineral Identification, Box Game Review, Crossword Puzzle, End Unit Assessment with Answers so Students Can Self-Assess



Part 5: Rocks and the Rock Cycle: Rocks, Scheme for Igneous Rock Identification, Intrusive, Extrusive Igneous Rocks, Classification for Igneous Rocks, Rocks Flow Chart, Common Igneous Rocks, Common Sedimentary Rocks, Common Metamorphic Rocks, Scheme for Metamorphic Rocks, Regional and Contact Metamorphism, Rock Identification Quiz, Rock Auction Project, Box Game Review, Crossword Puzzle, End Unit Assessment with Answers so Students Can Self-Assess

Part 6: Earth System History: 8 Lessons of 50 Minutes and 8 Page Follow Along Work Bundle, Earth Broken down into a 12 Hour Day and emergence of Humans, Age of the Earth, Uniformitarianism, Review of the Five Fingers of Evolution, Principle of Superposition, Card Activity with the Principle of Superposition, Earth System History, Units of Time, Understanding the Units of Time, Fragility of the System, Mass Extinction Events, Build a timeline project where students work in groups and create a 4.65 meter long timeline of Earth System History, Protoplanet, Precambrian Supereon, Hadean Eon, Crust Formation, Formation of the Moon, Importance of the Moon Formation, Earth's EM Field, Major Events of the Hadean, Events of the Archean, First Prokaryotic Cells, Tectonic Activity, Stromatolites, Proterozoic Eon, Cyanobacteria, Oxygen Catastrophe, Banded Iron Formations, Snowball Earth, Multi-cellular Life, Major Events of the Proterozoic Eon, Paleozoic Era, Major Events of the Cambrian, Ediacaran fauna, Burgess Shale, Make Burgess Shale Activity, Ordovician, Tetrapod Evolution, Tiktaalik, Ichthyostega, Silurian, Devonian, Carboniferous, Fossil Fuels, and Permian Periods, End Permian Mass Extinction, Major Events of the Mesozoic Era, Pangea, Bird Hipped and Lizard Hipped Dinosaurs, Dinosaur Challenge Activity, How Modern Birds and Dinosaurs are Similar, K-Pg Mass Extinction Event, Cenozoic Era, Paleogene, and Neogene Periods, Epochs and Ages, Presentation of Student Timelines, Box Game Review, Crossword Puzzle, End Unit Assessment where Students Use their Timeline, Answers to Assessment so Students Can Self Assess.



# Geology Topics Unit Part 1: Plate Tectonics, Uniformitarianism, Continental Drift, Evidence for Continental Drift, Pangea, Rodinia, Heat and Convection, Energy Waves, Layers of the Earth, The EM Field, Heat Transfer, Types of Crust, Plate Boundaries, Subduction Zones, Converging and Diverging Boundaries, Ring of Fire, Archipelagos, Transform Boundaries,

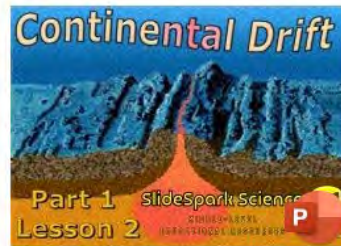
## Part 1: Geology Unit



Additional and Printables



Part 1 Lesson 1 Plate Tectonics



Part 1 Lesson 2 Continental Drift



Part 1 Lesson 3 Layers of the Earth I



Part 1 Lesson 4 EM Layers cont.



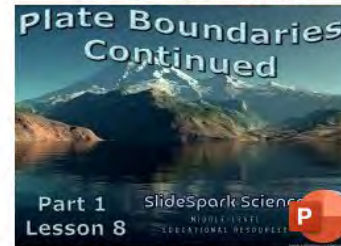
Part 1 Lesson 5 Heat Transfer



Part 1 Lesson 6 Heat Transfer II



Part 1 Lesson 7 Plate Boundaries



Part 1 Lesson 8 Plate Boundaries II



Part 1 Lesson 9 Plate Boundaries III



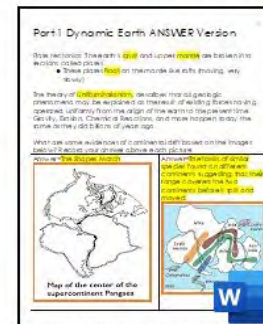
Part 1 Lesson 10 Plate Boundaries IV



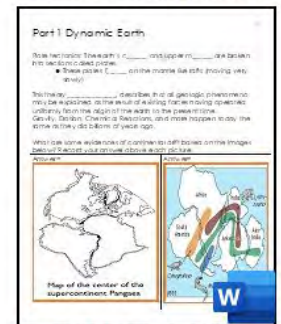
Part 1 Lesson 11 Review Game



Part 1 Lesson 12 Review Game Answers



Part 1 Work Bundle Answers



Part 1 Work Bundle Digital



# Geology Topics Unit Part 2: Hot Spots, Hawaii, Volcanoes, Supervolcano, Yellowstone, Sidoarjo "Lusi" Mud Volcano Case Study, Pompeii Case Study, Positives and Negatives of Volcanoes, Types of Volcanoes, Parts of a Volcano, Hazards of Volcanoes, Lahar, Pyroclastic Flows, VEI Index, Magma, Types of Lava, Viscosity of Lava / Silica Content

## Part 2: Volcanoes



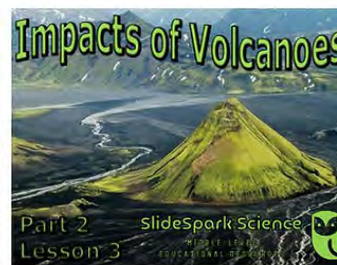
Additional and Printables



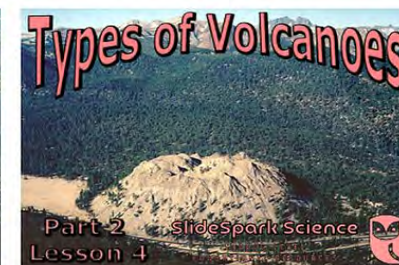
Part 2 Lesson 1 Volcanoes Hawaii Yellowstone



Part 2 Lesson 2 Eruptions Mud Read



Part 2 Lesson 3 Impacts of Volcanoes



Part 2 Lesson 4 Types of Volcanoes



Part 2 Lesson 5 Hazards of Volcanoes



Part 2 Lesson 6 Magma and Lava



Part 2 Lesson 7 Viscosity



Part 2 Lesson 8 Types of Lava and Wrap Up



Part 2 Lesson 9 Review Game



Part 2 Lesson 10 Review Game Answers



Part 2 Volcanoes Work Bundle Answers



Part 2 Volcanoes Work Bundle Digital



Part 2 Volcanoes Work Bundle Print



# Part 3: Deformation, Types of Deformation, Faults, Folds, Types of Stress on Rock, Types of Faults, Types of Folds, Energy Waves, Mechanical Waves, Body Waves, Surface Waves, Earthquakes, Moment Magnitude Scale, Richter Scale, Earthquake Case Study, Mercalli Scale, Epicenter, Finding an Epicenter, Earthquake Design, Design Challenge with a shake table, Tsunami, Tsunami Case Studies, Causes of Tsunami, Tsunami warning signs

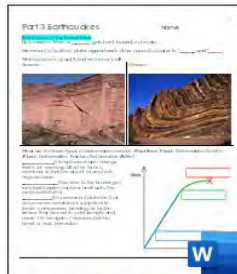
## Part 3: Earthquakes



Additional and Printables



Part 3 Earthquakes Work Bundle Answers



Part 3 Earthquakes Work Bundle Print

### Faults and Folds

Part 3 Lesson 1

Part 3 Lesson 1 Faults and Folds

### Types of Faults

Part 3 Lesson 2

Part 3 Lesson 2 Types of Faults

### Lateral Faults

Part 3 Lesson 3

Part 3 Lesson 3 Lateral Faults

### Compression Folds

Part 3 Lesson 4

Part 3 Lesson 4 Compression Folds

### Mechanical Waves

Part 3 Lesson 5

Part 3 Lesson 5 Mechanical Waves

### Seismographs and Seismometers

Part 3 Lesson 6

Part 3 Lesson 6 Seismograph

### Epicenter

Part 3 Lesson 7

Part 3 Lesson 7 Epicenter

### Design Challenge

Part 3 Lesson 8

Part 3 Lesson 8 Design Challenge

### Tsunami

Part 3 Lesson 9

Part 3 Lesson 9 Tsunami

### Review Game

Part 3 Lesson 10

Part 3 Lesson 10 Earthquakes Review Game

### Review Game

Part 3 Lesson 11

Part 3 Lesson 11 Review Game Answers



# Minerals, Crystals, Uses of Minerals, Types of Crystals, Atomic Bonding, Physical Properties of Minerals, Primary Minerals, Mineral Properties Lab, Common Mineral Identification

## Part 4: Minerals



Additional and Printables



Part 4 Lesson 1 Minerals



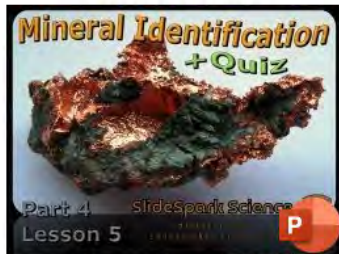
Part 4 Lesson 2 Crystals



Part 4 Lesson 3 Crystal Quiz Bonds



Part 4 Lesson 4 Primary Minerals



Part 4 Lesson 5 Mineral Identification



Part 4 Lesson 6 Mineral Answers Properties



Part 4 Lesson 7 Mineral Properties II



Part 4 Lesson 8 Properties Lab



Part 4 Lesson 9 Properties Quiz Wrap Up



Part 4 Lesson 10 Review Game



Part 4 Lesson 11 Answers to Review Game



Part 4 Minerals Work Bundle Digital



Part 4 Minerals Work Bundle Print Answers



Part 4 Minerals Work Bundle Print

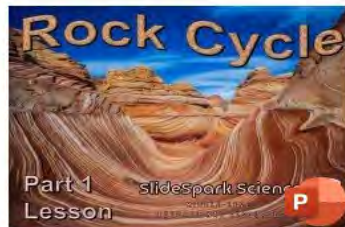


# Rocks, Scheme for Igneous Rock Identification, Intrusive, Extrusive Igneous Rocks, Classification for Igneous Rocks, Rocks Flow Chart, Common Igneous Rocks, Common Sedimentary Rocks, Common Metamorphic Rocks, Scheme for Metamorphic Rocks, Regional and Contact Metamorphism, Rock Identification Quiz

## Part 5: Rocks and the Rock Cycle



Additional and Printables



Part 5 Lesson 1 Start Rock Cycle



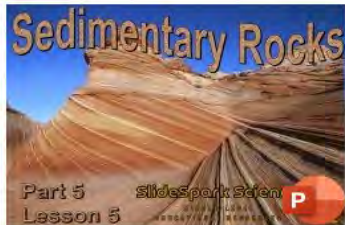
Part 5 Lesson 2 Igneous Rocks



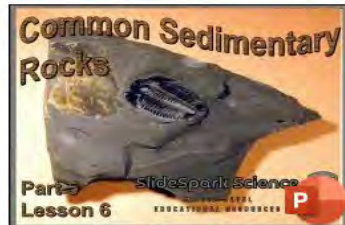
Part 5 Lesson 3 Igneous Rocks cont



Part 5 Lesson 4 Rocks Flow Chart



Part 5 Lesson 5 Sedimentary Rocks



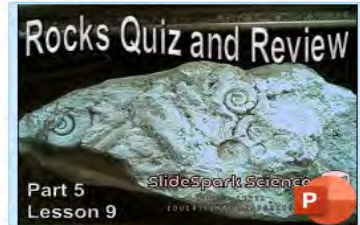
Part 5 Lesson 6 Common Sedimentary



Part 5 Lesson 7 Metamorphic Rocks



Part 5 Lesson 8 Common Metamorphic



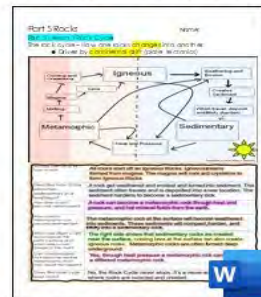
Part 5 Lesson 9 Quiz and Wrap Up



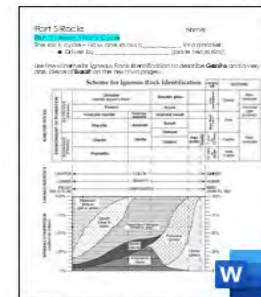
Part 5 Lesson 10 Review Game



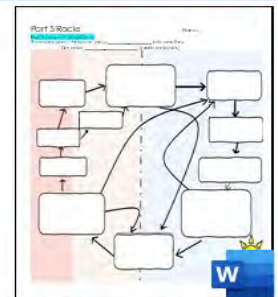
Part 5 Lesson 11 Review Game Answers



Part 5 Rocks Work Bundle Answers



Part 5 Rocks Work Bundle Digital



Part 5 Rocks Work Bundle Print



**Part 6: Earth System History:** 8 Lessons of 50 Minutes and 8 Page Follow Along Work Bundle, Earth Broken down into a 12 Hour Day and emergence of Humans, Age of the Earth, Uniformitarianism, Review of the Five Fingers of Evolution, Principle of Superposition, Card Activity with the Principle of Superposition, Earth System History, Units of Time, Understanding the Units of Time, Fragility of the System, Mass Extinction Events, Build a timeline project where students work in groups and create a 4.65 meter long timeline of Earth System History, Protoplanet, Precambrian Supereon, Hadean Eon, Crust Formation, Formation of the Moon, Importance of the Moon Formation, Earth's EM Field, Major Events of the Hadean, Events of the Archean, First Prokaryotic Cells, Tectonic Activity, Stromatolites, Proterozoic Eon, Cyanobacteria, Oxygen Catastrophe, Banded Iron Formations, Snowball Earth, Multi-cellular Life, Major Events of the Proterozoic Eon, Paleozoic Era, Major Events of the Cambrian, Ediacaran fauna, Burgess Shale, Make Burgess Shale Activity, Ordovician, Tetrapod Evolution, Tiktaalik, Ichthyostega, Silurian, Devonian, Carboniferous, Fossil Fuels, and Permian Periods, End Permian Mass Extinction, Major Events of the Mesozoic Era, Pangea, Bird Hipped and Lizard Hipped Dinosaurs, Dinosaur Challenge Activity, How Modern Birds and Dinosaurs are Similar, K-Pg Mass Extinction Event, Cenozoic Era, Paleogene, and Neogene Periods, Epochs and Ages, Presentation of Student Timelines, Box Game Review, Crossword Puzzle, End Unit Assessment where Students Use their Timeline, Answers to Assessment so Students Can Self Assess.

## Part 6: Earth System History



Part 6 Lesson 1 Age of the Earth



Part 6 Lesson 2 Units of Time



Part 6 Lesson 3 Precambrian Super Eon



Part 6 Lesson 4 Paleozoic



Part 6 Lesson 5 Mesozoic



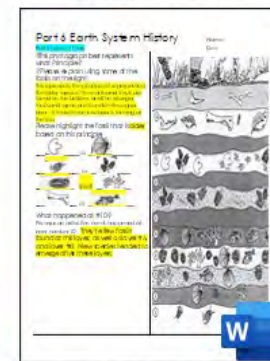
Part 6 Lesson 6 Cenozoic



Part 6 Lesson 7 Review Game



Part 6 Lesson 8 Review Game Answers



Part 6 Work Bundle Answers



Part 6 Work Bundle Digital










# Curriculum Guide

Number of Lessons in each unit (50 min, daily lessons) and difficult rating scale / intended grade level.

 =Easier,

 = More difficult,

 =Most difficult

Earth Science Units	Daily Lessons	Intended Grade	
Geology Topics Unit	60 Lessons	6-8 medium difficulty	
Weather and Climate Unit	40 Lessons	6-8 medium difficulty	
Astronomy Unit	60 Lessons	6-8 medium difficulty	
Weathering, Soil Sciences	28 Lessons	5-7 easier	
Rivers and Water Quality	25 Lessons	5-7 easier	
Water Molecule Unit	20 Lessons	5-7 easier	
Biogeochemical Cycles Unit	16 Lessons	5-7 easier	



# Earth Science Curriculum

SlideSpark Science

MIDDLE-LEVEL  
EDUCATIONAL RESOURCES



## Entire Water Unit

27 Lessons

Rivers, Lakes, Water  
Quality Unit

20+ Lessons

7 Units • 250 Lessons

Interactive Slideshows with  
Chronological Work Bundles  
Hundreds of Pages, Activities,  
Projects, Videos, Academic  
Links, Assessments, Games &  
Keys All Built-In for Seamless,  
Ready-to-Go Learning

## Biogeochemical Cycles

17 Lessons

## GEOLOGY Mega Bundle

6 Parts, 60 Lessons

Weathering, Soil Science,  
Ice Ages, Glaciers Unit

5 Parts 36 Lessons

## Interactive Slideshows Follow Along Bundles

### Weather and Climate Mega Bundle 40 Lessons

7 Units

### Astronomy Mega Bundle











60 Lessons

7 Units

Grades 5-10



# Life Science Units

Life Science Units	Daily Lessons	Intended Grade	
Ecology Feeding Levels Unit	13 Lessons	5-6 easier	
Ecology Interactions Unit	30 Lessons	5-6 easier	
Ecology Abiotic Factors Unit	13 Lessons	5-6 easier	
Botany Unit	50 Lessons	5-7 easier	
Evolution and Natural Selection	40 Lessons	5-7 easier	
Taxonomy and Classification	50 Lessons	6-8 medium difficulty	
Infectious Diseases Unit	30 Lessons	7-9 more difficult	
DNA and Genetics Unit	42 Lessons	8-10 most difficult	
Human Body Systems Unit	85 Lessons	6-8 medium difficulty	
Cell Biology Unit	30 Lessons	8-10 most difficult	



# Life Science Curriculum

SlideSpark Science

MIDDLE-LEVEL  
EDUCATIONAL RESOURCES



## Interactive Slideshows Follow Along Bundles

10 Units of Study



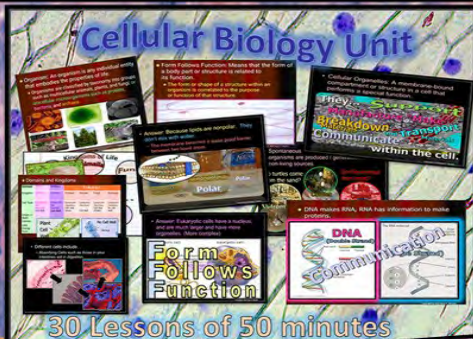
Botany Unit



Human Body Systems Unit



Cellular Biology Unit



Infectious Diseases



DNA and Genetics Unit



Taxonomy and Classification Unit



Ecology Interactions Unit



Ecology Feeding Level Full Unit







Ecology Abiotic Factors Unit





# Physical Science

	Daily Lessons	Intended Grade	
Laws of Motion and Machines Unit	33 Lessons	8-10 most difficult	
Matter Energy and the Environment	58 Lessons	7-10 medium difficulty	
Atoms and Periodic Table Unit	44 Lessons	8-10 most difficult	
Science Skills Unit	30 Lessons	5-7 medium difficulty	

[Physical Science Curriculum](#)

[Entire SlideSpark Science Curriculum](#)





# Physical Science Curriculum

SlideSpark Science

MIDDLE-LEVEL  
EDUCATIONAL RESOURCES



## Science Skills Unit

5 Parts, 30 Lessons

Physical Science Curriculum,  
4 Units • 165 Lessons of 50  
mins, Interactive Slideshows  
with Chronological Work  
Bundles, Hundreds of Pages,  
Activities, Labs, Projects,  
Video & Academic Links,  
Assessments, Games, Keys,  
All Built-In for Seamless  
Ready-to-Go Learning

Thousands of Interactive Slides

67 Pages of Follow Along  
Work Bundle

Assessments, Games,  
Video Links, and more

Everything you need to run an  
amazing learning experience

## Interactive Slideshows Follow Along Bundles

Grades 7-10

Laws of Motion and  
Simple Machines Unit

33 Lessons

With Follow Along  
Work Bundles

63 Pages

Assessments, Activities,  
Projects, and so much more

## Atoms and Periodic Table Unit

6 Parts, 44 Lessons

Thousands of Interactive Slides

Follow Along Work Bundle

108 Pages, with Labs,  
Quizzes, more, all built-in

Exciting Activities, Questions,  
Videos, All built-in

## Matter and Energy and the Environment Unit

58 Lessons

Interactive Slideshows

with Follow Along Work Bundles

125 Pages

Activities, Assessments,  
and more, all built-in



Dear Valued Educator,

Our fully editable .pptx and .doc resources are perfect for educators looking to bring enthusiasm and creativity to their lessons. We encourage you to make changes to fit your needs and style. As science educators, we're committed to providing students with the tools they need to succeed in the classroom and beyond. Each unit in the curriculum includes a range of resources that have been developed through extensive research and use in a busy classroom. Our teaching approach is designed to make science education engaging and exciting for learners of all ages. We offer a one-of-a-kind science curriculum that will challenge, inspire, and educate students to become tomorrow's scientists and leaders. Join us today and learn more about how our program can help you achieve your classroom goals.

With appreciation,

[Support@SlideSpark.net](mailto:Support@SlideSpark.net)





Thank you for your time and interest in our Science curriculum. We strive to provide students with engaging and informative lessons that will spark their curiosity and encourage scientific exploration. Should you have any questions or concerns, please do not hesitate to contact us. Thank you again for considering our curriculum, and we wish you all the best in your educational journey.

Sincerely,

[Support@slidespark.net](mailto:Support@slidespark.net)



# SlideSpark Science

MIDDLE-LEVEL  
EDUCATIONAL RESOURCES



[SlideSpark Science on TpT](#)