# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| **August** | 4 | PS.5.8A | Motion at the Macro-scopic level<br><br>Forces Affecting Motion | Motion | Frame of Reference<br><br>Motion<br><br>Speed<br><br>Measuring Speed<br><br>Position-Time Graphs<br><br>Speed-Time Graphs<br><br>Changing Speed and Direction | ➢ Describe and identify variables that change an object's speed, directions and both, so as forces that cause the change in motion;<br>➢ Explain and analyse graphs on Motion in terms of frames reference depicting motion and future motion;<br>➢ Create a graph devised from data of moving objects and their interactions including: position-/velocity-time graphs.<br>➢ Analyze data and Produce conclusions from Laboratory Experiment<br>And/or, perform skills related to: **Acquisitive** *(Listening, Inquiring, Observing, Reviewing, Contrasting, Searching),* **Organizational** *(Recording, Evaluating,…* | ➢ Worksheets<br>➢ Video Analysis<br>➢ Group Presentations (Posters, PPT, Video, etc…)<br>➢ Collaborative Discussions<br>➢ Case-Analysis/Problem Solving<br>➢ Graphic Organizers<br>➢ Research Paper<br>➢ Question-Answering p.17-20 (set questions/lesson)<br>➢ Experiments #s 1-2 (Pre-/Post-discussions)<br>➢ Think-Pair Share: p. 25, #w 1-3 (last day) | ➢ Weekly/Monthly Quizzes (To Be Announced)<br>➢ Pre-Diagnostic Test<br>➢ Activity [1]<br>➢ Activity [2]<br>➢ Activity[3] |

[1] https://westernreservepublicmedia.org/ubiscience/images/newton_guide.pdf
[2] https://scienceworld.scholastic.com/pages/topics/physics.htm
[3] https://betterlesson.com/lesson/637225/forces-and-motion-assessment-review

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| **September** | 4 | PS.5.8A<br><br>PS.6.8A | Motion at the Macroscopic level<br><br>Forces Affecting Motion | Motion | Acceleration<br><br>Slowing Things Down<br><br>Stopping a Car<br><br>Newton's Laws of Motion<br><br>Friction<br><br>Gravity, Falling and Air Resistance | ➢ Use data to recognize how a change in force (greater/less) might affect the position, direction of motion, or speed of an object, e.g. ramps and balls);<br><br>➢ Inquire and describe how the acceleration of a body is dependent on its mass and the net applied force (Newton's Second Law);<br><br>➢ Describe, identify and Illustrate Newton's laws of Motion: qualitative and quantitatively drawing vector examples.<br><br>➢ Demonstrate that an object in motion that is unaffected by a force will continue to move at constant speed and in a straight line (Newton's 1st Law)<br><br>➢ Analyze data and Produce conclusions from Laboratory Experiment<br><br>➢ And/or, perform skills related to: **Acquisitive** | ➢ Worksheets<br>➢ Video Analysis<br>➢ Group Presentations (Posters, PPT, Video, etc…)<br>➢ Collaborative Discussions<br>➢ Case-Analysis/Problem Solving<br>➢ Graphic Organizers<br>➢ Research Paper<br>➢ Question-Answering pp. 21-24 (set questions/lesson)<br>➢ Experiments #s 3 to 5 (Pre-/Post-discussions)<br>➢ Think-Pair Share: p. 17 #s 4-6 (last day) | ➢ Weekly / Monthly Quizzes<br>➢ Activity [4]<br>➢ Activity [5]<br>➢ Activity [6]<br>➢ Activity [7] |

[4] https://www.doe.k12.de.us/Page/550
[5] https://westernreservepublicmedia.org/ubiscience/images/newton_summative.pdf
[6] https://scienceworld.scholastic.com/pages/topics/physics.html
[7] https://www.proprofs.com/quiz-school/story.php?title=laws-motion-quiz

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| **Oct.** | 4 | PS.5.8A<br><br>PS.6.8A | Forces Affecting Motion | Forces | Forces<br><br>Various Kinds of Forces<br><br>Effect of Force on the Motion of Objects<br><br>Elasticity and Springs<br><br>More about Springs | ➢ Use data to recognize how a change in force (greater/less) might affect the position, direction of motion, or speed of an object, e.g. ramps and balls);<br><br>➢ Inquire & describe how the acceleration of a body is dependent on its mass & the net applied force (Newton's Second Law);<br><br>➢ Describe, identify & Illustrate Newton's laws of Motion: qualitative and quantitatively drawing vector examples.<br><br>➢ Demonstrate an object in motion that is unaffected by a force will continue to move at constant speed and in a straight line | ➢ Worksheets<br>➢ Video Analysis<br>➢ Group Presentations (Posters, PPT, Video, etc…)<br>➢ Collaborative Discussions<br>➢ Case-Analysis/Problem Solving<br>➢ Graphic Organizers<br>➢ Research Paper<br>➢ Question-Answering pp. 7-8 (Set Questions/lesson)<br>➢ Experiments # 6 (Pre-/Post-discussions)<br>➢ Think-Pair Share: p. 15 #s 1-2 (last day) | ➢ Weekly /Monthly Quizzes<br>➢ Activity [8]<br>➢ Activity[9]<br><br>➢ Activity[10]<br><br>➢ Activity [11]<br><br>➢ Activity [12] |

[8] https://study.com/academy/practice/quiz-worksheet-hooke-s-law-the-spring-constant.html
[9] https://www.khanacademy.org/science/ap-physics-1/ap-work-and-energy/spring-potential-energy-and-hookes-law-ap/e/elastic-potential-energy-ap1
[10] https://www.tes.com/teaching-resource/hooke-s-law-worksheet-with-answers-11551183
[11] https://www.tes.com/teaching-resource/hooke-s-law-worksheet-for-gcse-11257378
[12] https://www.rtmsd.org/Page/17804

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| | | | | | | (Newton's 1st Law)<br>➢ Discover the effects of forces on springs and communicate findings.<br>➢ Analyze data and Produce conclusions from Laboratory Experiment<br>➢ And/or, perform skills related to: **Acquisitive** *(Listening, Inquiring, Observing, Reviewing, Contrasting, Searching),* **Organizational** *(Recording, Demonstrating, Experimenting, Evaluating, Analysing, Comparing)*, **Manipulative** *(Experimenting & Graphing*), and **Communicative** *(Discussing, asking questions, Discussing, Explaining, Reporting)*. | | |
| | | | | | | | | |

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| **Nov.** | 4 | PS.6.8A | Forces Affecting Motion | Forces | Mass, Weight and Gravity | ➢ Explain the effect of gravity on falling objects (e.g., g= 9.8m/s2, object dropped on earth and on moon);<br>➢ Explain that the force of gravity gets stronger the closer one gets to an object and decreases the further away one gets from it.<br>➢ Distinguish the effect of Gravitational forces Between pairs of objects (i.e., earth and objects on the surface, earth and moon, Earth and sun).<br>➢ Explain that the Earth's Gravitational force pulls any object toward it.<br>➢ Determine the possible Weights on various places (e.g., Earth, | ➢ Worksheets<br>➢ Video Analysis<br>➢ Group Presentations (Posters, PPT, Video, etc…)<br>➢ Collaborative Discussions<br>➢ Case-Analysis/Problem Solving<br>➢ Graphic Organizers<br>➢ Research Paper<br>➢ Question-Answering pp. 9-11 (Set Questions/lesson)<br>➢ Experiments # 7 (Pre-/Post-discussions)<br>➢ Think-Pair Share: p. 15 #s 3-5 | ➢ Weekly/Monthly Quizzes (To Be Announced)<br>➢ Activity [13]<br>➢ Activity[14]<br>➢ Activity[15]<br>➢ Activity[16]<br>➢ Activity[17]<br>Final Term Exams (To Be Announced) |

[13] https://quizlet.com/subject/science-test-6th-grade-gravity-motion/
[14] https://betterlesson.com/lesson/638056/mass-versus-weight-travel-to-other-planets
[15] https://www.tes.com/teaching-resource/balanced-forces-worksheet-3000639
[16] https://www.bbc.com/education/guides/zrcmn39/test
[17] https://www.educationquizzes.com/us/middle-school-6th-7th-and-8th-grade/science/

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| | | | | | | Mars, and others).<br>➢ Explain the tenets of Balance and Stability, so as Liquid Pressure; analyse the drawing's suggested proportions.<br>➢ Analyze data and Produce conclusions from Laboratory Experiment<br>➢ And/or, perform skills related to: **Acquisitive** *(Listening, Inquiring, Observing, Reviewing, Contrasting, Searching),* **Organizational** *(Recording, Demonstrating, Experimenting, Evaluating, Analysing, Comparing)*, **Manipulative** *(Experimenting & Graphing*), and **Communicative** *(Discussing, asking questions, Discussing, Explaining, Reporting)*. | | |
| | | | | | | | | |

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| **Dec.** | 2 | PS.3.8B<br><br>PS.6.4A | Forces Affecting Motion | Forces | Pressure in Liquids<br><br>Hydraulic Machines | ➢ Explain the application of the Pressure's basic formula on various cases;<br>➢ Perform experiments and projects with simple machines to demonstrate the relationship between forces and distance.<br>➢ Illustrate quantitatively Mechanical advantage of Simple machines.<br>➢ Relate the principle of Braking Forces on brake fluids/lubricants.<br>➢ Analyze data and Produce conclusions from Laboratory Experiment<br>➢ And/or, perform skills related to: **Acquisitive** *(Listening, Inquiring,* | ➢ Worksheets<br>➢ Video Analysis<br>➢ Group Presentations (Posters, PPT, Video, etc…)<br>➢ Collaborative Discussions<br>➢ Case-Analysis/Problem Solving<br>➢ Graphic Organizers<br>➢ Research Paper<br>➢ Question-Answering pp. 13-14 (Set Questions/lesson)<br>➢ Experiments # 8 (Pre-/Post-discussions)<br>➢ Think-Pair Share: p. 15 #s 6-7 | ➢ Weekly/Monthly Quizzes (To Be Announced)<br>➢ Activity[18]<br>➢ Activity[19]<br>➢ Activity[20]<br>➢ Activity[21]<br>➢ Activity[22]<br>➢ Post-Test (To Be Announced)<br>➢ Final Term Exams (To Be Announced) |

[18] http://wothtv.com/post/pressure-force-area-worksheet.html
[19] https://www.helpteaching.com/questions/Physics/Grade_6
[20] https://www.saddlespace.org/whittakerm/science/cms_page/view/7795367
[21] https://www.ck12.org/physics/Fluid-Pressure-in-Physics/
[22] http://quizzes.howstuffworks.com/quiz/hydraulic-machine-quiz

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| | | | | | | *Observing, Reviewing, Contrasting, Searching),* **Organizational** *(Recording, Demonstrating, Experimenting, Evaluating, Analysing, Comparing)*, **Manipulative** *(Experimenting & Graphing*), and **Communicative** *(Discussing, asking questions, Discussing, Explaining, Reporting)*. | | |
| **Jan.** | 2<br><br>2 | PS.4.8A&C<br><br>PS.1.4D | Forms of Energy<br><br>Properties of Matter | Energy, Work & Fuels<br><br>Solids, Liquids & | Types of Energy<br><br>Work & Energy<br><br>Solids, Liquids, Gasses<br><br>Density | ➢ Explain that these forms/types of energy have its unique characteristics and application in daily live;<br><br>➢ Manipulate the Work formula on given scenarios or cases; | ➢ Worksheets<br>➢ Video Analysis<br>➢ Group Presentations (Posters, PPT, Video, etc…)<br>➢ Collaborative Discussions<br>➢ Case-Analysis/Proble | ➢ Weekly/Monthly Quizzes<br>➢ Pre-Test<br>➢ Activity[23]<br>➢ Activity[24]<br>➢ Activity[25]<br>➢ Activity[26]<br>➢ Activity[27]<br>➢ Activity[28] |

[23] http://sbsciencematters.com/6th/physical-energy/6.1FormsofEnergy.pdf
[24] https://betterlesson.com/lesson/634002/energy-summative-assessment-answering-the-essential-question
[25] http://www.physicsclassroom.com/calcpad/energy/problems
[26] https://www.thatquiz.org/tq/previewtest?U/A/V/8/E7D41399382136
[27] https://www.havefunteaching.com/resource/science/solid-liquid-gas-worksheet-2/
[28] https://www.pinterest.com/pin/313703930265385673/

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| | | PS.1.8D<br>PS.1.4E<br>PS.1.8E | | Gasses | Measuring Density | ➢ Analyse Nutritional Chart/Table Labels on each comestible product;<br>➢ Identify, compare, and sort objects by similar or different physical properties (e.g., size, shape, color, texture, smell, weight).<br>➢ Use the logic, scientific inquiry and formula (Density = Mass / Volume) to measure the required component of an object (solid, liquid and gas with same or different mass.<br>➢ Analyze data and Produce conclusions from Laboratory Experiment<br>➢ And/or, perform skills related to: **Acquisitive** *(Listening, Inquiring,* | m Solving<br>➢ Graphic Organizers<br>➢ Research Paper<br>➢ Question-Answering pp. 35-36, 27-28 (Set Questions/lesson)<br>➢ Experiments # 9 (Pre-/Post-discussions)<br>➢ Think-Pair Share p. 49 # 1, and p.33, # 1-2 | ➢ Activity[29]<br>➢ Activity[30]<br>➢ Activity[31] |

[29] https://betterlesson.com/lesson/637562/measurement-density
[30] https://sites.google.com/site/6thgradephysicalscienceesler/unit-3
[31] https://quizlet.com/59792656/6th-grade-science-mass-volume-density-flash-cards/

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| | | | | | | *Observing, Reviewing, Contrasting, Searching),* **Organizational** *(Recording, Demonstrating, Experimenting, Evaluating, Analysing, Comparing)*, **Manipulative** *(Experimenting & Graphing*), and **Communicative** *(Discussing, asking questions, Discussing, Explaining, Reporting)*. | | |
| **Feb.** | 3 | PS.1.12A<br>PS3.12A<br><br>PS.1.8.D<br><br>PS.1.4.D | Properties of Matter | Solids, | The Kinetic Theory of Matter<br><br>Using the Kinetic Theory<br><br>Molecular Motion & Temperature | ➢ Explain and list the kinetic theory models under which state from ideal behavior of molecules;<br><br>➢ Demonstrate how energy can be transferred from one object to another | ➢ Worksheets<br>➢ Video Analysis<br>➢ Group Presentations (Posters, PPT, Video, etc…)<br>➢ Collaborative Discussions<br>➢ Case-Analysis/Proble | ➢ Weekly/Monthly Quizzes<br>➢ Activity[32]<br>➢ Activity[33]<br>➢ Activity[34]<br>➢ Activity[35]<br>➢ Activity[36]<br>➢ Activity [37]<br>➢ Activity[38] |

[32] https://spweb.tbaisd.k12.mi.us/sites/home/instructionalresources/science/pk8resources/6th%20Grade/6th%20Grade%20Unit%201%20Energy%20In%20Action%20Assmt%20Pkt%20Oakland%20Resource.doc

[33] https://quizizz.com/admin/quiz/5827d24a0a0d754977e8ff58

[34] https://www.proprofs.com/quiz-school/story.php?title=potential-kinetic-energy

[35] https://www.teacherspayteachers.com/Browse/Search:kinetic%20energy%206th%20grade

[36] https://quizlet.com/subject/science-test-6th-grade-chapter-6-thermal-energy/

[37] http://mrcrowder.us/2011-3rd-quarter-assignments-6th-grade-physical-science/

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| | | PS.1.8D<br>PS.2.12A<br><br>PS.1.8D<br>PS.1.8E | | Liquids & Gasses | Changing State | during collisions or movement;<br><br>➢ Describe the movement of individual particles and verify the conservation of matter during the phase changes (e.g., evaporating liquids, conduction of solids & boiling liquids);<br><br>➢ Explain the effect of increased and decreased thermal energy on the motion & arrangement of molecules.<br><br>➢ Analyze data and Produce conclusions from Laboratory Experiment<br><br>➢ And/or, perform skills related to: **Acquisitive** *(Listening, Inquiring, Observing, Reviewing, Contrasting, Searching),* **Organizational** *(Recording,* | m Solving<br>➢ Graphic Organizers<br>➢ Research Paper<br>➢ Question-Answering pp. 29-32 (Set Questions/lesson)<br>➢ Experiments #10 (Pre-/Post-discussions)<br>➢ Think-Pair Share: p. 33, #s 3-6 (last day) | |

[38] http://mrcrowder.us/2011-3rd-quarter-assignments-6th-grade-physical-science/

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| | | | | | | *Demonstrating, Experimenting, Evaluating, Analysing, Comparing)*, **Manipulative** *(Experimenting & Graphing*), and **Communicative** *(Discussing, asking questions, Discussing, Explaining, Reporting)*. | | |
| **Mar.** | 4 | PS.3.4B<br><br>PS.3.8B<br><br>(MOET-aligned-VN Curriculum) | Properties of Matter | Solids, Liquids & Gasses | *Heat*<br><br>*Heat Conductivity*<br><br>*Convection and Thermal Radiation* | ➢ Explain that thermal energy (heat) moves more rapidly in thermal conductors (e.g., metal pan) than in insulators (e.g., plastic handle);<br><br>➢ Describe the effectiveness of different insulating and conducting materials with respect to thermal energy (heat) flow.<br><br>➢ Describe how thermal energy (heat) is | ➢ Worksheets<br>➢ Video Analysis<br>➢ Group Presentations (Posters, PPT, Video, etc…)<br>➢ Collaborative Discussions<br>➢ Case-Analysis/Problem Solving<br>➢ Graphic Organizers<br>➢ Research Paper<br>➢ Question-Answering (Teacher's discretion to | ➢ Weekly/ Monthly Quizzes<br>➢ Activity[39]<br>➢ Activity [40]<br>➢ Activity[41]<br>➢ Activity[42]<br>➢ Mid-Term Exams |

[39] https://quizizz.com/admin/quiz/5846c956fb1b18ee1bfc9c68
[40] https://www.helpteaching.com/questions/Heat_Transfer/Grade_6
[41] https://betterlesson.com/lesson/634002/energy-summative-assessment-answering-the-essential-question
[42] https://www.pinterest.com/pin/403494447836240920/?lp=true

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| | | | | | | transferred by conduction, convection, and radiation, & how heat conduction differs in conductors and insulators;<br><br>➢ Explain how thermal energy (heat) consists of the random motion & vibrations of atoms and molecules & is measured by temperature.<br><br>➢ Analyze data and Produce conclusions from Laboratory Experiment<br><br>➢ And/or, perform skills related to: **Acquisitive** *(Listening, Inquiring, Observing, Reviewing, Contrasting, Searching),* **Organizational** *(Recording, Demonstrating, Experimenting, Evaluating, Analysing, Comparing)*, **Manipulative** *(Experimenting &* | construct-the contents are parallelly aligned with MOET curr.)<br>➢ Experiments # 11 (Pre-/Post-discussions)<br>➢ Think-Pair Share | |

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| | | | | | | *Graphing*), and **Communicative** *(Discussing, asking questions, Discussing, Explaining, Reporting)*. | | |
| **Apr.** | 2 | ESS.1.8A<br><br>ESS.1.8D | Objects in the universe | The Solar System | The Solar System<br><br>The Planets of the Solar System | ➢ Describe how different stars can be seen at different times of the year & planets change their positions against the background of stars over time;<br><br>➢ Explain that billions of galaxies form most of the visible mass in the universe;<br><br>➢ Explain that nine planets of varied sized, composition, & surface features move around the sun in elliptical orbits;<br><br>➢ Compare and contrast | ➢ Worksheets<br>➢ Video Analysis<br>➢ Group Presentations (Posters, PPT, Video, etc…)<br>➢ Collaborative Discussions: how to remember planets' order<br>➢ Case-Analysis/Problem Solving<br>➢ Graphic Organizers<br>➢ Research Paper<br>➢ Question-Answering pp. 104-105 (Set Questions/lesson) | ➢ Weekly/Monthly Quizzes<br>➢ Activity[43]<br>➢ Activity[44]<br>➢ Activity[45]<br>➢ Activity[46]<br>➢ Activity<br>➢ Final Term Exams (To Be Announced) |

[43] https://www.helpteaching.com/questions/Solar_System/Grade_6

[44] https://www.mcas.k12.in.us/site/handlers/filedownload.ashx?moduleinstanceid=21643&dataid=21637&FileName=ISI%20Online%20Assessments.pdf

[45] https://spweb.tbaisd.k12.mi.us/sites/home/instructionalresources/science/pk8resources/5th%20Grade/5th%20Grade%20Unit%202%20Solar%20System%20Assessment%20Oakland%20Resource.doc

[46] https://www.doe.k12.de.us/Page/550

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| | | | | | | the planets in terms of size relative to the earth's surface and atmospheric features, relative distance from the sun, & ability to support life.<br><br>➢ Analyze data and Produce conclusions from Laboratory Experiment<br><br>➢ And/or, perform skills related to: **Acquisitive** *(Listening, Inquiring, Observing, Reviewing, Contrasting, Searching),* **Organizational** *(Recording, Demonstrating, Experimenting, Evaluating, Analysing, Comparing),* **Manipulative** *(Experimenting & Graphing*), and **Communicative** *(Discussing, asking questions, Discussing, Explaining, Reporting)*. | ➢ Think-Pair Share: p.113, # 4 | |
| **May** | 4 | ESS.1.4B | Objects in | The Solar | Days, Months, | ➢ Use models to | ➢ Worksheets | ➢ Weekly/Monthly |

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| | | ESS.1.8B<br><br>ESS.1.4C<br><br>ESS.1.8A<br><br>ESS.1.4C<br><br>ESS.1.8A | the universe | System | Years<br>The Seasons<br><br>The Moon-the Earth's Satellite<br><br>A Star called the Sun<br>Gravity-Keeping the Planets in Orbit<br><br>Bullets, Missiles, Satellites | demonstrate how the revolution of the Earth around the sun produces the yearly cycle;<br><br>➢ Use a model to demonstrate & explain that because the Earth is title relative to the plane of the Earth's yearly orbit around the sun, sunlight, falls more intensely on different parts of the earth during the year, so as its surface produces the planet's seasons and weather patterns;<br><br>➢ Demonstrate the phases of the moon by showing the alignment | ➢ Video Analysis<br>➢ Group Presentations (Posters, PPT, Video, etc…)<br>➢ Collaborative Discussions<br>➢ Case-Analysis/Problem Solving<br>➢ Graphic Organizers<br>➢ Research Paper<br>➢ Question-Answering pp.106-112 (Set Questions/lesson)<br>➢ Think-Pair Share: p.113, #s 1, 2, 3, 5, 6 | Quizzes<br>➢ Activity[47]<br>➢ Activity[48]<br>➢ Activity[49]<br>➢ Activity [50]<br>➢ Activity[51]<br>➢ Activity[52]<br>➢ Activity[53]<br>➢ Activity[54]<br>➢ Activity[55]<br>➢ Post-Diagnostic Test<br>➢ Mid-/Final Term Exams (To Be Announced) |

[47] https://www.pinterest.com/pin/450360649950456 49/?lp=true
[48] https://www.havefunteaching.com/resources/worksheets/science-worksheets/seasons-of-the-year-worksheets/
[49] https://www.google.com.vn/url?sa=i&rct=j&q=&esrc=s&source=images&cd=&ved=2ahUKEwjS8drdhvjbAhULAogKHQBrC-MQjhx6BAgBEAM&url=https%3A%2F%2Fwww.pinterest.com%2Fpin%2F152770612336137835%2F&psig=AOvVaw3QlxUwtzXZFTkJ4zXzB72p&ust=1530333506779317
[50] https://quizlet.com/34058000/sun-moon-and-earth-systems-test-6th-grade-flash-cards/
[51] https://www.scribd.com/doc/312363164/6th-grade-space-test
[52] http://www.quizmoz.com/tests/Children-Tests/a/6th-Grade-Sun-Test.asp
[53] https://www.proprofs.com/quiz-school/story.php?title=nze2mti2mc0m
[54] http://www.bsisd.esc18.net/documents/Lesson%20Ideas/LESSONS%20&%20RESOURCES/SCIENCE/6th%20Gr/Science_Grade_06_Unit_08_Exemplar_Lesson_02__Gravity.pdf
[55] https://www.teachervision.com/satellites/what-are-satellites-space-probes

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| | | ESS.1.4C | | | | of the earth, moon, and sun;<br><br>➢ Research and write about the Solar System's Sun, and in doing so, a group would be assigned to present the information;<br>➢ Present information, significances and examples about artificial satellites orbiting around earth's atmosphere.<br>➢ Analyze data and Produce conclusions from Laboratory Experiment<br>And/or, perform skills related to: **Acquisitive** *(Listening, Inquiring, Observing, Reviewing, Contrasting, Searching),* **Organizational** *(Recording, Demonstrating, Experimenting, Evaluating, Analysing, Comparing)*, **Manipulative** *(Experimenting & Graphing*), and **Communicative** | | |

# The Asian International School Curriculum Mapping

Grade: 8 (Pre-Intermediate) Subject: Physics School Year: 2018-2019

| Month | # of Days | Core Standard | Strand | Topic | Content | Skills | Activities | Assessments |
|---|---|---|---|---|---|---|---|---|
| | | | | | | *(Discussing, asking questions, Discussing, Explaining, Reporting)*. | | |