

I'm not robot!

4. With the team member supporting the meter stick and acting as a fixed support, position the mass at the 25cm mark on the meter stick.
 - a. Is the team member able to keep the meter stick level? *yes*
 - b. Calculate the moment force experienced by the team member.
 $F \times D = 10 \text{ lbs} \times 0.9202 \text{ ft}$
Moment = 9.202 Lb-ft
5. With the team member supporting the meter stick and acting as a fixed support, position the mass at the 50cm mark on the meter stick. Calculate the moment force experienced by the team member.
 - a. Is the team member able to keep the meter stick level? *yes*
 - b. Calculate the moment force experienced by the team member.
 $F \times D = 10 \text{ lbs} \times 1.6404 \text{ ft}$
Moment = 16.404 Lb-ft
6. With the team member supporting the meter stick and acting as a fixed support, position the mass at the 75cm mark on the meter stick. Calculate the moment force experienced by the team member.
 - a. Is the team member able to keep the meter stick level? *Yes*
 - b. Calculate the moment force experienced by the team member.
 $F \times D = 10 \text{ lbs} \times 2.4606 \text{ ft}$
Moment = 24.606 Lb-ft
7. With the team member supporting the meter stick and acting as a fixed support, position the mass at the 100cm mark on the meter stick. Calculate the moment force experienced by the team member.
 - a. Is the team member able to keep the meter stick level? *No*
 - b. Calculate the moment force experienced by the team member.
 $F \times D = 10 \text{ lbs} \times 3.2808 \text{ ft}$
Moment = 32.808 Lb-ft

Conclusion

1. Calculate the moment force if you were to hold a 15 lb bowling ball with your forearm perpendicular to your body. What is the pinned connection?
 $\text{Moment} = F \times D$
 $15 \text{ lbs} \times 1 \text{ ft} = 15 \text{ Lb-ft}$
The pinned connection is your elbow
2. Clockwise forces are considered negative when they are summed with counterclockwise forces. Are they really negative forces? Explain your answer.
No, they are only negative in relation to a counterclockwise force

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 POE – Unit 2 – Activity 2.1.5 – Calculating Moments – Page 2

Inputs Product Function Output

Inputs	Product Function	Output
Top of the car	To cover the top of the car	Hear a ping noise and connects the piece together
Wheel and axle	For the car to move	Hear a thud and connects the piece together
The front of the car	The play the engine and important part of car	Push and hear a thud noise when connected
Little miniature people	To play the people in the car	Push and hear and thud when it connects
The back of the car	To play the back of the car and the end	Push and hear a thud when connected
The left middle of the car	To play where the people sit	Pushes both ways and hear two thuds
The right middle of the car	To be connected with the right side of the car	You hear a click and push
The rubber of the wheel	So the car will be able to move smoothly	You hear a squish sound and you push



Digital Electronics(DE) Course Description

Digital Electronics™ is the study of electronic circuits that are used to generate and control digital signals. In contrast to analog electronics, where information is represented by a continuous waveform, digital signals are represented by the discrete changes of a digital signal. Digital circuits are used to process information and control systems in a wide variety of applications. Digital electronics is the foundation of all modern electronic devices such as cellular phones, MP3 players, laptop computers, digital cameras, high definition televisions, etc.

The major focus of the DE course is to expose students to the design process of combinational and sequential logic design, hardware, communication methods, engineering standards, and technical documentation.

Utilizing the active project problem-based (APPB) technology learning methodology, students will analyze, design and troubleshoot electronic circuits. While engineering these designs, students will continually have their independent skills, creative abilities, and understanding of the design process.

Digital Electronics™ (DE) is a high school level course that is appropriate for 10th or 11th grade students interested in electronics. One that their curriculum could be a college preparatory mathematics and science courses. This course assumes no previous knowledge.

The course applies and concurrently develops secondary level knowledge and skills in mathematics, science, and technology.

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 DE Course Description - Page 1

- Conclusion
1. What is the difference between a circle and an ellipse?
One is equidistant from the center the other isn't
 2. What is the difference between an inscribed and a circumscribed shape?
One makes a shape tangent to another from the inside the other from outside
 3. Why is it impossible for a triangle to contain a 180° angle?
because all of the angles of a triangle must add up to 180°
 4. How is a rhombus similar to a square?
each opposite side is parallel to each other
 5. What is the difference between a right, acute, and obtuse triangle?
*right angle = 90 degrees
 acute = 90 < acute
 obtuse = 90 > obtuse*

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 Introduction to Engineering Design Activity 5.1 Calculating Properties of Shapes - Page 7

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Pltw activity 4.1.1 answer key.

This packet is designed to go with the Project Lead The Way module, The Changing Earth. It could go with any unit of study on erosion, weathering, or earth changes. Pages include a sheet with definitions and photographs of ten vocabulary words that include: boulder, soil, canyon, erosion, weathering, volcano, earthquake, landslide, engineer, and Design Process. Packet also includes fill in the blank, multiple choice, drawing pictures to represent words, a crossword, word search and cut and paste. Page 2171 pages of word blends word cards, header cards for each set, and accompanying worksheets. Blends include cl, fl, st, bl, fr, cr, gr, gl, br, sw, sp, pl, tw, sn, sc, sl, and sm. Worksheets include work on alphabetical order, long and short vowels, writing sentences, word change (adding 'ing' & 'ed'), word change (changing vowels), word change (changing beginning letter blends, word meaning (using technology), anchor chart for adding 'ing' and 'ed', and answer keys. Use for centers, word wall. Page 3 Fundations Level 2 Unit 14 - OU as in Scout and OW as in Plow. Page 8 Pages: Trick Words - 12 pages, OU and OW Posters color & b/w, Fundations phonics marking pages - 3 pages, Dab/Color Sounds - 2 pages, Cut & Paste: 2 pages, Reading passages: 3 pages, I HAVE WHO HAS GAME, Sentence Puzzles, Mini Book, Subject/Predicate Puzzle, Big Top Spectacular Game. More Level 2 Fundations Level 2 Unit 1: Digraphs, Blends, Closed Syllable. Level 2 Unit 2: Bonus Letters & Gued Sounds. Level 2 Unit 3: Closed S. Page 4 Winter Fun includes 5 different PRINTABLES with ANSWER KEYS for students to practice rhymes, synonyms, nouns, verbs and adjectives. It includes the following vocabulary: melt, sneat, coat, plow, flurries, ice hockey, fleece, fog, storm, boots, nippy, log, furnace, sleet, polar, pinecone, beanie, harsh, skate, spin, scarf, sweater. I hope you and your students enjoy them! I've uploaded a PDF file. Page 5L Blends Dominoes Game. Let's drill bl, cl, fl, gl, pl, sl (blends -l- words)! Great for Young Learners and ESL Kids. Players match the word side with the picture. Words included: clap, blaze, flag, globe, plow, slug, clock, blocks, floss, glue, plane, sleigh, cloud, blow, glad, planet, sled, claw, blanket, bleach, blue, blindfold, Glenda, blossom, blueberries, blood, blow, blocks, letter art. SL: slammed, slope, sleeve, flag, flyers, slippers, sloth, slice, slide, flip, flying, sling, letter art. PL: plane, play, plaid, plug, platypus, planet, plant, plate, plow, plum, pliers, plank, letter art. GL: glasses, glacier, glider, glue, globe, glove, gPage 7 This paperless deck features 36 digital cards for student practice spelling words with diphthongs. This deck focuses specifically on OU & OW diphthongs. Students will look at the picture and drag the letters to spell the word. Words Included: OU - loud, cloud, shout, house, pouch, couch, sprout, proud, ground, sound, found, mouth, south, mouse, blouse, count, snout OW - owl, howl, town, down, gown, clown, frown, crown, crowd, brown, growl, bow, cow, plow, brow, towel, shower, tower. Page 8 This Orton-Gillingham bundle contains 136 original, decodable stories with accompanying comprehension sheets and pouches! This is a huge bundle and can be used with students who are learning to read using a sequential, multi-sensory approach or students who are struggling to learn how to read. The sequence is as follows: Level One: short a, an, am, short l, short o, short u, short e, sh, ch, th, wh, cvcc, cvcc, cvccc, floss, a-e, i-e, o-e, u-e, vc/cv (contest), vc/cv (reptile), suffix (morePage 9) This product contains picture sorts to go with the beginning l consonant blends. I use these sorts during reading groups as well as with center activities. I also use them on my pocket charts to introduce blends or to do group sorts. The blends and words included in this set are: Sl: slam, sly, slow, slash, slip, slate, slim, sleet, slot, slouch, slide, sled, slug, slice, sleep, sloth, sleigh, sleeve, slippers, slope, slip, sling and slime. Cl: cloud, clover, clown, club, climb, clip, clock, cPage 10 These easy-prep visuals are essential when teaching diphthongs. Using pocket chart cards gives teachers just what they need when teaching each diphthong while making it easy for students to learn each word's sound and spelling pattern. After teaching a diphthong, display the poster on a word wall for students to reference. Picture Cards Includes: au: author, autumn, caught, daughter, haul, haunt, launch, laundry, sauce, vault. Words: claw, crawl, draw, gnaw, law, lawn, paw, raw, saw, shawl. Page 11 US History STEM & STEAM Challenges Bundle! These resources have science, technology, engineering, and measurement activities to do with your upper elementary kids that will really enhance their learning! This bundle contains 7 Student Savvy STEM Resources! Early Native Americans, Cherokee, Age of Discovery, Original 13 Colonies, Events Leading Up to the Revolutionary War, American Revolution, and The Constitution STEM Challenges. Each STEM Challenge has detailed directions, photo examples, aPage 12 PHONICS GAME - Initial Blend Card Game - Change - bl, fl, cl, pl, gl & sl - This initial blend card game covers the beginning blends bl, fl, cl, pl, gl & sl. Change is a Great Reading Game for Literacy Groups, sight word practice, auditory discrimination, phonics lessons & homework Preparation: Print the cards, laminate them and cut them out. How to Play: 1. Two, three or four players sit so they are facing each other. 2. Select a dealer to shuffle the cards and give five card

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