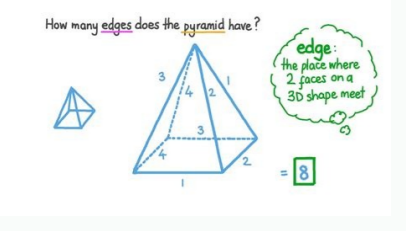
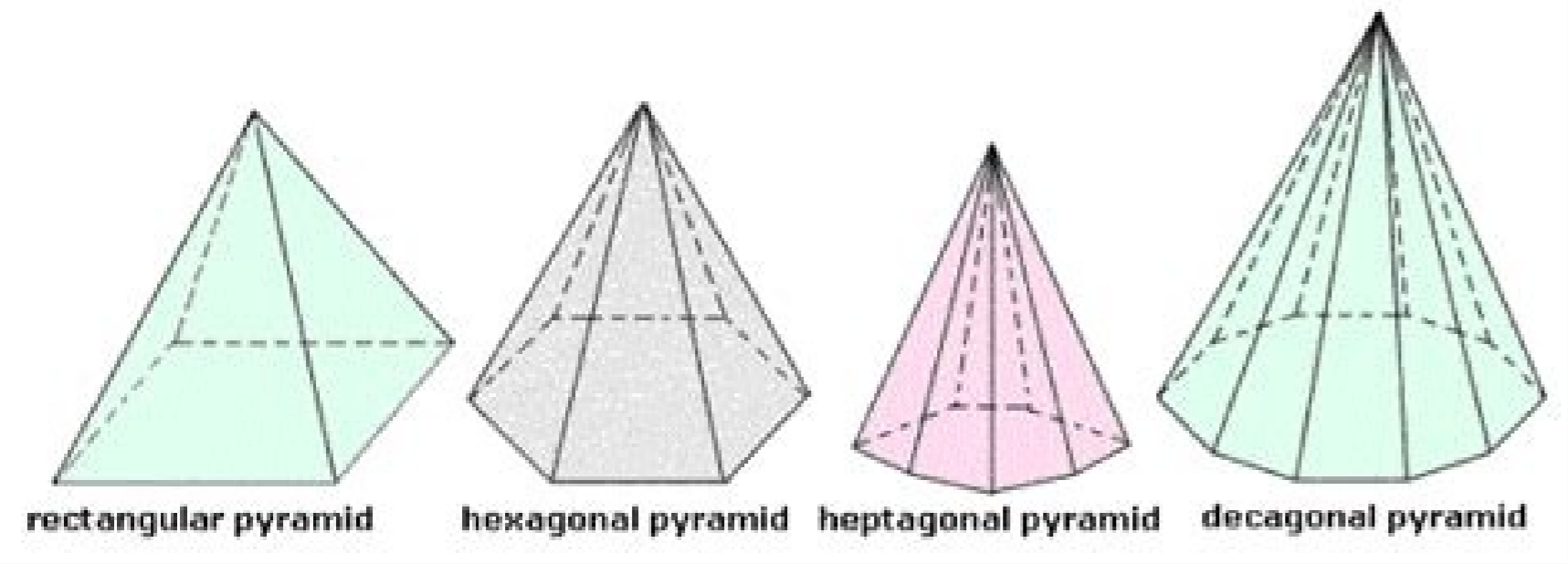
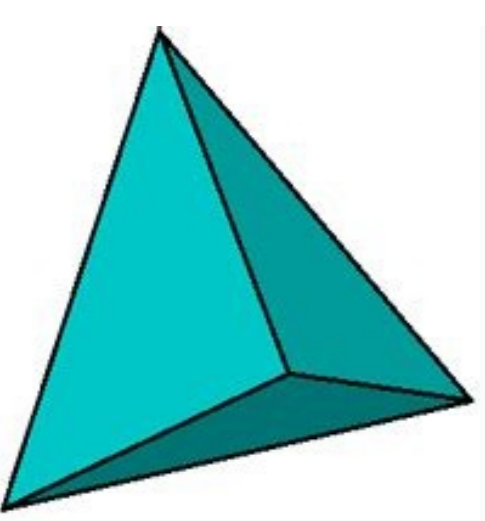


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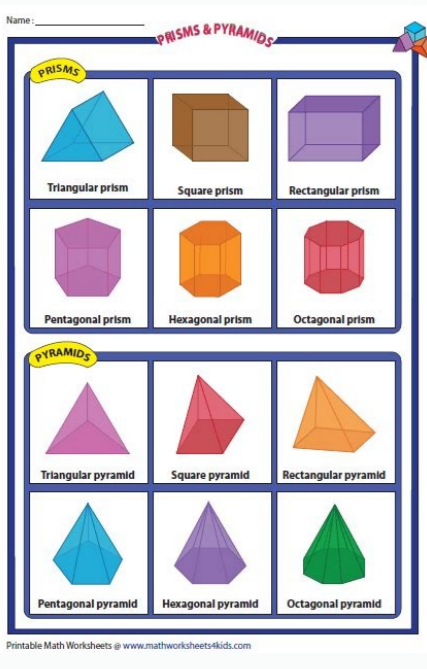


Name _____ Date _____

3D SHAPE SHEET

Square Based Pyramids

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Different shapes of pyramids. Different types of 3d pyramids.

Project Description In this project you will explore primitive 3D shapes (like boxes, tubes and cylinders) and learn to identify those shapes in a larger project. Look around you for a moment. Look at the chair you are sitting in, the desk you work at, the school you are in, or the vehicle that brought you to school. All of those things started out as designs and now you are beginning the journey to learn how to design and make things of your own. The starting point of 3D design is a primitive shape. These shapes can be added, subtracted, and combined with one another to build just about anything. The action of adding, subtracting, or combining primitive shapes is called a Boolean operation. Here are some common 3D primitive shapes: Cube, Cylinder, Tube, Sphere, Torus, Cone. The exciting thing about design, other than making your ideas real, is there are many different ways to combine shapes to make more complex things like this chair. Since there are many ways to design, there is no "right" way to do it. It's up to you, "the designer", to figure out the best shapes to use, the best way to arrange the shapes and the best order to group the shapes to create the shape you are looking for. See if you can count the number of cubes (boxes) used to build the chair below. **Instructions:** How many did you count? Was it 5? Was it 6? Was it 240? Minecraft blocks? All of these answers (and many more) are correct. It all depends on the materials you have and your specific needs. Each of these groups, when combined into a single object, make the same chair shape. **Hint:** In the "Let's Learn Tinkercad!" lesson you will learn how to use a shape to subtract (or remove) material from another shape. This time, let's take a look at something a bit more complex. Below is a rocket you learn how to make in the "Build your own Space Station" Tinkercad project. Can you identify the primitive shapes that make up the rocket? Have a look, take your time. **Instructions:** Can you find the sphere shape(s)? Can you find the cylinder shape(s)? Can you find the cone shape(s)? Think you found them all? Continue to the next step to find out! There are many different steps to creating this rocket shape. Were you able to identify the shapes that were used? Are these the shapes you would have used? **Instructions:** Does this view help? Below you can see all the shapes separated so you can see them a bit more clearly. Continue to the next step. At this point, you may think this is a lot of fun or a lot of hard work, perhaps both. There is no question, designing things can be a challenge. It takes lots of practice, but when you learn how to turn your ideas into something real the possibilities are endless. Who knows, someday you may be a car designer, architect, interior designer, or even a movie maker. **Instructions:** Congratulations, you have completed this project! Sound waves are actually waves of physical pressure. We've used them in haptics technology to create invisible, touchable shapes in midair. Manipulating waves in 3D requires a phased array of transducers, but phased arrays are limited in spatial resolution by the physical size of each transducer. They're also expensive. Now a team of researchers from the Max Planck Institute in Stuttgart, Germany have figured out an inexpensive way to shape sound waves in 3-space, using 3D printing. The team first made a map of the necessary phase shifts: the places and strengths at which they wanted the acoustic waves to interact. Those interactions create localized zones of constructive interference, and therefore higher acoustic pressure. To create complex forms, the team then turned to 3D printing. Using a plastic that propagates sound faster than water does, they made templates that work in a way not unlike the gels used in studio lighting. The templates admit sound through them at different speeds, depending on the thickness of the material, and the printer applied different thicknesses of material depending on the required phase delay. This created a plate printed with a design in relief. Applying sound to the plate at precisely tuned frequencies created diffraction-limited acoustic pressure fields, aligned to create designs in 3D space. The researchers used them to make pictures and also to affect the movement of particles. Melde, Mark, Qiu and Fischer, 2016. The acoustic holograms these researchers can create don't themselves move around through the air — so far, they're still limited to static phenomena by nature of the plates they use. But that doesn't stop the scientists from using their method to move other things. They can move bits of resin around through defined trajectories. Using their plates to create a standing wave, they let loose a bit of resin onto the surface of the wave, whereupon the particle quickly surfed to an opportune place on the wave and settled into a stable orbit. Water mist, atomized in front of the transducer, coalesced into droplets trapped at the programmed points in the acoustic field. Watch them make an image of Picasso's peace dove in a dish of water, pilot around bits of resin, and even leave drops of water levitating in midair, all in real time. Lead author Peer Fischer, a Research Group Leader at the Max Planck Institute for Intelligent Systems, normally works on micro- and nanobots. Holograms were not among his core interests. "However, we were looking for a way to move large numbers of microparticles simultaneously so that we could assemble them into larger more complex structures," explains Fischer. While he and colleagues were trying to figure out how to pilot nanobots, they discovered this new way of approaching the problem. Finer control over the shape of acoustic pressure fields already has applications in medicine, and this development stands to improve the state of the art. Beyond the use of ultrasound as a diagnostic and monitoring tool, kidney and gallbladder stones can sometimes be removed using an ultrasound procedure called lithotripsy. "There's a great deal of interest in using our invention to easily generate ultrasound fields with complex shapes for localized medical diagnostics and treatments," says Fischer. I'm also hereby retconning this into being the scientifically rigorous, peer-reviewed proof of concept behind the sonic net they used in that one episode of Farscape, "Taking the Stone." This is just part of my ongoing quest to suss out the actual science hiding in sci-fi. Now read more about cool stuff we can do with sound: This 'acoustic prism' can split sound the way a regular prism splits light



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