

# N432 Newborn Worksheet

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This assignment should be submitted to the Dropbox by date assigned before 2359. Please provide detail for each area. Complete table (40 points) **Include in-text citations in APA format. Attach Reference page.**

Area	Normal Findings	Expected Variations
Skin	<ul style="list-style-type: none"> <li>• The skin has acrocyanosis, or cyanosis of the hands and feet, and is warm and pink (Durham et al., 2023).</li> <li>• Milia is seen on the bridge of the nose and chin (Durham et al., 2023).</li> <li>• The presence of lanugo on the forehead, shoulders, and back diminishes as gestation progresses (Durham et al., 2023).</li> <li>• Peeling or cracking is typically noticed in newborns &gt;40 weeks' gestation (Durham et al., 2023).</li> <li>• Patches of slate gray (Durham et al., 2023).</li> <li>• Hemangiomas such as salmon-colored patch (stork bites), nevus flammeus (port-wine</li> </ul>	<ul style="list-style-type: none"> <li>• Vernix caseosa - White, cheesy layer on the skin; protects skin in utero (Durham et al., 2023).</li> <li>• Lanugo - Fine, silky hair on shoulders, back, or forehead; more frequent in premature newborns (Durham et al., 2023).</li> <li>• Milia: Tiny white or yellow papules on the chin or nose that result from sebaceous gland blockage (Durham et al., 2023).</li> <li>• Erythema toxicum - Blotchy red rash with white/yellow center; develops in first 24-72 hrs and disappears on its own (Durham et al., 2023).</li> <li>• Mongolian spots, also known as dermal melanocytosis, are bluish-gray patches that often appear on the sacrum or buttocks of newborns with darker skin tones (Durham et al., 2023).</li> </ul>

	<p>stain), and strawberry hemangiomas are developmental vascular abnormalities (Durham et al., 2023).</p> <ul style="list-style-type: none"> <li>• Stork bites can occur on the upper lip, between the eyes, on the eyelid, or at the nape (Durham et al., 2023). When the baby screams, their color deepens. Within the first year of life, they vanish.</li> <li>• Nevus flammeus are purple- to red-colored flat patches that can be present on various sections of the body (Durham et al., 2023). These do not vanish.</li> <li>• Raised, bright red lesions known as strawberry hemangiomas appear during the newborn stage (Durham et al., 2023). They spontaneously resolve</li> </ul>	<ul style="list-style-type: none"> <li>• Acrocyanosis is a blue staining of the hands and feet that usually appears in the first 24 to 48 hours (Durham et al., 2023).</li> <li>• Harlequin color shift - One side of the body scarlet, the other pale while resting on side; temporary (Durham et al., 2023).</li> <li>• Stork bites (nevus simplex) — Pink/red flat markings on eyelids, nose, or nape of neck (Durham et al., 2023).</li> <li>• Peeling or dry skin — Common after birth, especially in post-term infants (Durham et al., 2023).</li> <li>• Caput succedaneum: Scalp soft tissue edema that extends beyond suture lines (Durham et al., 2023).</li> <li>• Seborrheic dermatitis, or cradle cap, is characterized by greasy, yellow scales on the scalp (Durham et al.,</li> </ul>
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	<p>throughout early childhood.</p> <ul style="list-style-type: none"><li>• Newborn rash and erythema toxicum (Durham et al., 2023).</li></ul>	2023).
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<p><b>Head</b></p>	<ul style="list-style-type: none"> <li>• Molding present (Durham et al., 2023).</li> <li>• Fontanelles are open, soft, complete, and somewhat depressed (Durham et al., 2023). They may swell with crying.</li> <li>• The anterior fontanel, which closes by the age of 18 months, has a diamond shape and is around 2.5 to 4 cm (Durham et al., 2023).</li> <li>• The posterior fontanel, which shuts between two and four months, is shaped like a triangle and is around 0.5 to 1 cm (Durham et al., 2023).</li> <li>• May be difficult to palpate due to extensive molding (Durham et al., 2023).</li> <li>• When there is more shaping, there are overriding sutures (Durham et al., 2023).</li> </ul>	<ul style="list-style-type: none"> <li>• Molding: An elongated or misshapen head during vaginal delivery that goes away in a few days (Durham et al., 2023).</li> <li>• Caput succedaneum is a soft tissue scalp swelling that appears after birth and goes away in one to three days. It spans suture lines (Durham et al., 2023).</li> <li>• Cephalohematoma: A collection of blood between the skull and the periosteum that occurs hours after birth and goes away over several weeks; it does not cross suture lines (Durham et al., 2023).</li> <li>• Anterior fontanel: Diamond-shaped, soft and flat; closes by ~18 months (Durham et al., 2023).</li> <li>• Posterior fontanel: Small and triangular; closes by 2–3 months (Durham et al., 2023).</li> <li>• Palpable suture lines: A</li> </ul>
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		<p>small amount of overlap or ridging is typical just after delivery (Durham et al., 2023).</p> <ul style="list-style-type: none"><li>• Head circumference greater than chest – Normal in neonates (Durham et al., 2023).</li><li>• Birth-related bruises, particularly following a forceps or vacuum delivery (Durham et al., 2023).</li><li>• Lanugo on scalp or forehead; More prevalent in premature newborns (Durham et al., 2023).</li><li>• Cradle cap, or seborrheic dermatitis, is characterized by yellow, oily scales on the scalp (Durham et al., 2023).</li></ul>
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<p><b>Fontanels</b></p>	<ul style="list-style-type: none"> <li>• Fontanels are open, soft, complete, and somewhat depressed (Durham et al., 2023). They may swell with crying.</li> <li>• The anterior fontanel, which closes by the age of 18 months, has a diamond shape and is around 2.5 to 4 cm (Durham et al., 2023).</li> <li>• The posterior fontanel, which shuts between two and four months, is shaped like a triangle and is around 0.5 to 1 cm (Durham et al., 2023).</li> </ul>	<ul style="list-style-type: none"> <li>• Anterior fontanel: Diamond-shaped, soft and flat; closes by ~18 months (Durham et al., 2023).</li> <li>• Posterior fontanel: Small and triangular; closes by 2–3 months (Durham et al., 2023).</li> <li>• May pulse with heartbeat (Durham et al., 2023).</li> <li>• After delivery, the edges of sutures may feel a little elevated (Durham et al., 2023).</li> </ul>
<p><b>Face</b></p>	<ul style="list-style-type: none"> <li>• Facial features symmetrical at rest (Durham et al., 2023).</li> <li>• Skin pink and nicely perfused (Durham et al., 2023).</li> <li>• When at rest, eyes are aligned (Durham et al., 2023).</li> </ul>	<ul style="list-style-type: none"> <li>• Puffiness and edema of the face, particularly the eyelids (Durham et al., 2023).</li> <li>• Petechiae or bruises on the face caused by birth pressure (Durham et al., 2023).</li> <li>• Milia on nose, cheeks, chin (Durham et al., 2023).</li> </ul>

	<ul style="list-style-type: none"> <li>• Midline of the nose and patent (Durham et al., 2023).</li> <li>• Intact mouth without palate or lip clefts (Durham et al., 2023).</li> <li>• Strong reflex to suck (Durham et al., 2023).</li> <li>• Lips and oral mucosa pink and moist (Durham et al., 2023).</li> </ul>	<ul style="list-style-type: none"> <li>• Nevus simplex (stork bites/angel kisses), (Durham et al., 2023).</li> <li>• Epstein pearls on the palate or gums (Durham et al., 2023).</li> <li>• Subconjunctival hemorrhage (Durham et al., 2023).</li> <li>• Grayish-blue sclera (Durham et al., 2023).</li> <li>• Sporadic strabismus (Durham et al., 2023).</li> <li>• Flattened nose or chin from placement (Durham et al., 2023).</li> <li>• Asymmetry while crying, facial nerve compression, (Durham et al., 2023).</li> <li>• Short-lived nasal flaring right after birth (Durham et al., 2023).</li> </ul>
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<p><b>Eyes</b></p>	<ul style="list-style-type: none"> <li>• The size and position of the eyes are symmetrical and equal (Durham et al., 2023).</li> <li>• Within 12 inches of the visual field, the newborn can follow things (Durham et al., 2023).</li> <li>• Pressure during labor and delivery or a response to ocular prophylaxes may cause edema (Durham et al., 2023).</li> <li>• The iris is either brown or blue-gray (Durham et al., 2023).</li> <li>• White or blue white is the sclera (Durham et al., 2023).</li> <li>• Because of the pressure during labor and delivery, subconjunctival bleeding may be present (Durham et al., 2023).</li> <li>• All pupils react to light in the same way (Durham</li> </ul>	<ul style="list-style-type: none"> <li>• A little quantity of white or clear ocular discharge due to clogged tear ducts (Durham et al., 2023).</li> <li>• Sclera that is bluish-gray due to weak connective tissue (Durham et al., 2023).</li> <li>• Eyelid puffiness or edema, which occasionally makes it difficult to open your eyes at first (Durham et al., 2023).</li> <li>• Subconjunctival hemorrhage (Durham et al., 2023).</li> </ul>
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	et al., 2023).	
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<p><b>Nose</b></p>	<ul style="list-style-type: none"> <li>• The nose may be flattened or bruised related to the birth process (Durham et al., 2023).</li> <li>• Nares should be patent. Small amount of mucus is present (Durham et al., 2023).</li> <li>• Neonates primarily breathe through their noses (Durham et al., 2023).</li> </ul>	<ul style="list-style-type: none"> <li>• Flattened or deformed nose because of birth pressure or intrauterine placement (Durham et al., 2023).</li> <li>• After delivery, there is a brief nasal flare that goes away when breathing stabilizes (Durham et al., 2023).</li> <li>• A little quantity of transparent mucus in the nasal passages (Durham et al., 2023).</li> <li>• Temporary nasal swelling upon delivery (Durham et al., 2023).</li> <li>• Sneezing sometimes to cleanse the nasal passages (Durham et al., 2023).</li> </ul>
<p><b>Mouth</b></p>	<ul style="list-style-type: none"> <li>• The tongue, palate, lips, gums, and mucous membranes are all intact, pink, and moist (Durham et al., 2023).</li> <li>• Reflexes are positive (Durham et al., 2023).</li> <li>• After delivery, dry lips</li> </ul>	<ul style="list-style-type: none"> <li>• Epstein pearls are little white cysts on the palate or gums (Durham et al., 2023).</li> <li>• Strong sucking might cause blisters or calluses on the lips (Durham et al., 2023).</li> <li>• Drooling briefly when developing oral coordination</li> </ul>

	<p>are typical (Durham et al., 2023).</p> <ul style="list-style-type: none"><li>• There are Epstein's pearls (Durham et al., 2023).</li></ul>	<p>(Durham et al., 2023).</p> <ul style="list-style-type: none"><li>• Mild lip edema or delivery or feeding-related bruises (Durham et al., 2023).</li><li>• A white layer of milk residue on the tongue that is readily removed (Durham et al., 2023).</li></ul>
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<p><b>Ears</b></p>	<ul style="list-style-type: none"> <li>• The exterior canthus of the eye is in line with the top of the pinna (Durham et al., 2023).</li> <li>• Pinna is flexible, well-formed, and free of defects (Durham et al., 2023).</li> <li>• The newborn exhibits positive startle symptoms in response to sounds (Durham et al., 2023).</li> <li>• As the Eustachian tubes clear, hearing becomes more acute (Durham et al., 2023).</li> <li>• High-pitched voice sounds elicit a greater response from newborns (Durham et al., 2023).</li> </ul>	<ul style="list-style-type: none"> <li>• Easily foldable ear cartilage that is soft and flexible (Durham et al., 2023).</li> <li>• Pinna folding or temporary malformation due to birth placement (Durham et al., 2023).</li> <li>• Low-appearing ears because to molding or a head shape that returns to normal after swelling goes away (Durham et al., 2023).</li> <li>• Short-lived delayed reaction to sound while middle ear fluid clears (Durham et al., 2023).</li> </ul>
<p><b>Neck</b></p>	<ul style="list-style-type: none"> <li>• The neck is short with skin folds (Durham et al., 2023).</li> <li>• Positive tonic neck reflex may be present (Durham et al., 2023).</li> </ul>	<ul style="list-style-type: none"> <li>• Because of the abundant subcutaneous fat, the neck appears short and thick (Durham et al., 2023).</li> <li>• Moisture buildup causes creases in the neck skin</li> </ul>

		<p>(Durham et al., 2023).</p> <ul style="list-style-type: none"><li>• Transient head lag when dragged to sitting (typical in infants), (Durham et al., 2023).</li><li>• Intrauterine positioning-related mild torticollis (Durham et al., 2023).</li><li>• Temporary reduced neck range of motion soon after delivery (Durham et al., 2023).</li><li>• You may feel tiny, soft lymph nodes (Durham et al., 2023).</li><li>• Early in life, one side of the neck was preferred (Durham et al., 2023).</li></ul>
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<b>Chest</b>	<ul style="list-style-type: none"> <li>• The chest is symmetrical and has a barrel-like form (Durham et al., 2023).</li> <li>• Both male and female newborns may have breast engorgement, which is caused by maternal hormones and goes away in a few weeks (Durham et al., 2023).</li> <li>• Nipple fluid that is milky or clear and associated with maternal hormones (Durham et al., 2023).</li> </ul>	<ul style="list-style-type: none"> <li>• Both sexes' breast tissue growth due to maternal hormones (Durham et al., 2023).</li> <li>• A little quantity of milky nipple fluid (Durham et al., 2023).</li> <li>• Ribs are visible because of the thin chest wall (Durham et al., 2023).</li> <li>• Short-term asymmetrical chest movement upon birth that returns to normal (Durham et al., 2023).</li> </ul>
<b>Breath Sounds</b>	<ul style="list-style-type: none"> <li>• Lung sounds are equal and distinct (Durham et al., 2023).</li> <li>• It is possible to detect scattered crackles in the initial hours following delivery. The lymphatics will absorb the trapped lung fluid, which is the cause of this (Durham et al., 2023).</li> </ul>	<ul style="list-style-type: none"> <li>• As soon as the lung fluid clears, there are little crackles (Durham et al., 2023).</li> <li>• Respiratory rhythm that is slightly irregular (Durham et al., 2023).</li> <li>• Because of the thin chest wall, breath sounds seem louder (Durham et al., 2023).</li> </ul>
<b>Heart Sounds</b>	<ul style="list-style-type: none"> <li>• The third or fourth</li> </ul>	<ul style="list-style-type: none"> <li>• Variability in heart rate</li> </ul>

	<p>intercostal gap is the point of maximum impulse (Durham et al., 2023).</p> <ul style="list-style-type: none"> <li>• There are S1 and S2 (Durham et al., 2023).</li> <li>• Regular beat that varies somewhat depending on respiratory and activity changes (Durham et al., 2023).</li> <li>• 30% of newborns have murmurs, which go away two days after delivery (Durham et al., 2023).</li> <li>• There are equal brachial and femoral pulses (Durham et al., 2023).</li> </ul>	<p>during crying, moving, or sleeping (Durham et al., 2023).</p> <ul style="list-style-type: none"> <li>• A little erratic rhythm in the early stages of life (Durham et al., 2023).</li> <li>• Temporary cardiac murmur throughout the first 24 to 48 hours. often because of the foramen ovale or ductus arteriosus closing (Durham et al., 2023).</li> </ul>
<b>Abdomen</b>	<ul style="list-style-type: none"> <li>• The abdomen is symmetrical, round, soft, and protruding (Durham et al., 2023).</li> <li>• With two arteries and one vein, the cord is opaque or pale blue and coated with Wharton's jelly (Durham et al.,</li> </ul>	<ul style="list-style-type: none"> <li>• Weak abdominal muscles resulting in a rounded or protuberant belly (Durham et al., 2023).</li> <li>• Visible movement of the abdomen when breathing (Durham et al., 2023).</li> <li>• Short-term distention of the abdomen during feeding or</li> </ul>

	2023).	crying (Durham et al., 2023).
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<p><b>Bowel Sounds</b></p>	<ul style="list-style-type: none"> <li>• There are bowel noises, although during the first several days they could be hypoactive (Durham et al., 2023).</li> <li>• Meconium stool passage within 48 hours after delivery (Durham et al., 2023).</li> </ul>	<ul style="list-style-type: none"> <li>• Early-life hyperactive bowel noises (Durham et al., 2023).</li> <li>• Temporary irregularities in stooling patterns while feeding is established (Durham et al., 2023).</li> <li>• Meconium passage within the first 24 to 48 hours (Durham et al., 2023).</li> </ul>
<p><b>Umbilical Cord</b></p>	<ul style="list-style-type: none"> <li>• The skin around the umbilical cord should be examined for infection and should not be red, swollen, draining, or odorous (Durham et al., 2023).</li> <li>• Within 24 hours of delivery, the chord dries out and darkens, and within two weeks, it separates from the body (Durham et al., 2023).</li> </ul>	<ul style="list-style-type: none"> <li>• At birth, the umbilical cord stump is wet and bluish white; with time, it dries and darkens (Durham et al., 2023).</li> <li>• Moist, bluish-white chord after birth that dries, shrivels, and becomes black over a few days (Durham et al., 2023).</li> <li>• The cord stump splits after around 7–14 days (Durham et al., 2023).</li> <li>• A tiny bit of dried blood on the stump or diaper as it separates (Durham et al.,</li> </ul>

		<p>2023).</p> <ul style="list-style-type: none"><li>• Just before the cable comes out, there is a little smell (Durham et al., 2023).</li></ul>
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<p><b>Genitals</b></p>	<p>Females:</p> <ul style="list-style-type: none"> <li>• Within a day, the newborn urinates (Durham et al., 2023).</li> <li>• The midline is the urinary meatus (Durham et al., 2023).</li> <li>• The clitoris and labia minora are covered by the labia majora (Durham et al., 2023).</li> <li>• Edema may occur in the labia majora and minora (Durham et al., 2023).</li> <li>• The sudden drop in maternal hormones is linked to blood-tinged vaginal discharge (Durham et al., 2023).</li> <li>• Maternal hormones are known to cause whitish vaginal discharge (Durham et al., 2023).</li> </ul> <p>Males:</p> <ul style="list-style-type: none"> <li>• At the apex of the penis is the urinary meatus</li> </ul>	<p>Both:</p> <ul style="list-style-type: none"> <li>• Urate crystals can cause urine to appear dark and leave a red or rust-colored stain on the diaper (also known as "brick dust"). During the first several days of life, this is typical (Durham et al., 2023).</li> <li>• Within a day, the newborn urinates continuously (Durham et al., 2023).</li> </ul> <p>Males:</p> <ul style="list-style-type: none"> <li>• In mature babies, the testes descended; in preterm babies, they might not have descended (Durham et al., 2023).</li> <li>• Uncircumcised newborns' non-retractable foreskin (Durham et al., 2023).</li> <li>• After circumcision, temporary penile edema (Durham et al., 2023).</li> </ul> <p>Females:</p> <ul style="list-style-type: none"> <li>• Maternal hormones cause clitoris and labia to swell (Durham et al., 2023).</li> </ul>
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	<p>(Durham et al., 2023).</p> <ul style="list-style-type: none"><li>• The scrotum has rugae, or ridges or folds, and is big, pendulous, and edematous (Durham et al., 2023).</li><li>• The scrotum is used to palpate both testes (Durham et al., 2023).</li></ul>	<ul style="list-style-type: none"><li>• Vaginal discharge that is thick and white (Durham et al., 2023).</li><li>• A tiny quantity of "pseudomenstruation," or vaginal bleeding, during the first week (Durham et al., 2023).</li><li>• Hymenal tags (Durham et al., 2023).</li></ul>
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<p><b>Anus</b></p>	<ul style="list-style-type: none"> <li>• The anus is patent (Durham et al., 2023).</li> <li>• Passage of stool within 24 hours (Durham et al., 2023).</li> </ul>	<ul style="list-style-type: none"> <li>• Sticky, dark green-black meconium feces that change to brown or yellow ones (Durham et al., 2023).</li> <li>• Mucus in the stool in small amounts during the early transition (Durham et al., 2023).</li> <li>• Perianal skin irritation or temporary moderate redness caused by the first feces or diapers (Durham et al., 2023).</li> </ul>
<p><b>Extremities</b></p>	<ul style="list-style-type: none"> <li>• The arms are equal in strength and symmetrical in length (Durham et al., 2023).</li> <li>• The length and strength of the legs are equal (Durham et al., 2023).</li> <li>• Ten toes and ten fingers (Durham et al., 2023).</li> <li>• Every extremity is shown to have its full range of motion (Durham et al., 2023).</li> <li>• No joint clicks (Durham</li> </ul>	<ul style="list-style-type: none"> <li>• Arm and leg flexion due to intrauterine positioning (Durham et al., 2023).</li> <li>• In the first 24 to 48 hours, acrocyanosis (Durham et al., 2023).</li> <li>• When crying, little shakes or jitters that subside with consoling (Durham et al., 2023).</li> <li>• Soft, flexible cartilage in the ankles and feet with readily corrected positional abnormalities (Durham et</li> </ul>

	<p>et al., 2023).</p> <ul style="list-style-type: none"> <li>• Gluteal folds that are equal (Durham et al., 2023).</li> </ul>	<p>al., 2023).</p> <ul style="list-style-type: none"> <li>• Dry or peeling skin on the hands and feet (Durham et al., 2023).</li> <li>• Hand or foot edema soon after birth (Durham et al., 2023).</li> <li>• Strong grip reflex (Durham et al., 2023).</li> </ul>
<b>Spine</b>	<ul style="list-style-type: none"> <li>• Vertebrae have a C-shaped spine with no holes that may be felt or seen. There are no visible sinuses or dimpling (Durham et al., 2023).</li> <li>• Birth pressure-induced temporary mild redness or bruising on bony areas (Durham et al., 2023).</li> </ul>	<ul style="list-style-type: none"> <li>• Trunk position preference is mild and becomes better with movement (Durham et al., 2023).</li> <li>• Lanugo, or fine hair, over the lower back (Durham et al., 2023).</li> </ul>

**For the following questions and tables, include in-text citations in APA format. Attach Reference page.**

1. What safety and security measures are in place for newborns? (5 points)

- ID bracelets are put on the newborn and the parent right away (Durham et al., 2023).

- At some facilities, the newborn's ankle has electronic security tags that sound an alert if they are removed or taken off the unit (Durham et al., 2023).
  - Verification of matching identification before to operations or release (Durham et al., 2023).
  - Maternity units that are locked and have restricted access (Durham et al., 2023).
  - When working with infants, staff identification badges are necessary (Durham et al., 2023).
2. What are normal ranges for an infant's heart rate and respiratory rate? **(2 points)**
- 100-160 beats per minute but may increase to around 180 beats per minute if the newborn is crying (Durham et al., 2023).
  - Respirations of 30-60, more on the higher side if the newborn is crying, and lower side if the newborn is sleeping (Durham et al., 2023).
3. What is the normal range and method for acquiring an infant's temperature? Why is this? **(2 points)**
- The normal range for an infant's temperature is 97.5-99.5 degrees Fahrenheit using the method of the axillary spot under the infant's arm (Durham et al., 2023).
  - This is preferred because it is more noninvasive than the other method, rectal, and still provides an accurate reading for the infant's temperature (Durham et al., 2023).

**Complete Table (10 points)**

Medication	Dosage	Administration Site	Possible side effects	Why is this administered?
Vitamin K	0.5-1mg	Intramuscular	The site can	To decrease the

	within one hour of birth (Durham et al., 2023).	(Durham et al., 2023). In the thigh muscle (vastus lateralis)	swell, erythema, or pain (Durham et al., 2023).	risk of (VKDB), or bleeding (Durham et al., 2023).
<b>Erythromycin</b>	0.5% ointment within one hour of birth (Durham et al., 2023).	Lower conjunctival sac of both of the newborn's eyes (Durham et al., 2023).	Eye irritation, redness, potential blurred vision (Durham et al., 2023).	To prevent ophthalmic neonatorum (gonorrhea or chlamydial eye infections) of the newborn (Durham et al., 2023).
<b>Hepatitis B</b>	0.5mL vaccine within the first 12 hours of birth if the mother is positive, and within 24 hours if not (Durham et al., 2023).	Intramuscular (Durham et al., 2023). In the thigh muscle (vastus lateralis)	The site can swell, erythema, or pain, or a low-grade fever (Durham et al., 2023).	Protect the infant from the HBV, chronic liver disease, cirrhosis, liver cancer, etc (Durham et al., 2023).

**Complete Table (20 points)**

Name of Test	Why is this test ordered?
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<b>Blood Glucose</b>	<p>Detects hypoglycemia, which, if left untreated, can result in seizures or brain damage (Durham et al., 2023).</p> <p>Particularly significant for:</p> <ul style="list-style-type: none"> <li>• Babies born to moms with diabetes (Durham et al., 2023).</li> <li>• Infants born prematurely or with low birth weight (Durham et al., 2023).</li> <li>• Big or small for newborns of gestational age (Durham et al., 2023).</li> </ul>
<b>Blood type and Rh Factor</b>	<p>Determines whether the mother and child are ABO or Rh incompatible (Durham et al., 2023). This test also aids in predicting the newborn's risk for jaundice and hemolytic illness (Durham et al., 2023).</p>
<b>Coombs Test</b>	<p>Examines the baby's red blood cells for maternal antibodies (Durham et al., 2023). This test also verifies hemolysis linked to the immune system, which can cause severe jaundice or anemia (Durham et al., 2023).</p>
<b>Bilirubin levels</b>	<p>Fetal hemolytic disease is indicated by elevated bilirubin levels (Durham et al., 2023). This test examines for jaundice, or hyperbilirubinemia (Durham et al., 2023). Early therapy can help prevent kernicterus, or bilirubin brain harm (Durham et al., 2023). The AAP recommends universal screening of bilirubin levels on all neonates before discharge, and levels are interpreted according to the infant's age in hours using an established nomogram (Durham et al., 2023).</p>
<b>Newborn Screen</b>	<p>Newborn screening programs focus on disorders for which early detection and treatment improve health</p>

	<p>outcomes (Durham et al., 2023). This test prioritizes the early detection of severe metabolic, endocrine, and genetic conditions, such as sickle cell disease, hypothyroidism, PKU, and cystic fibrosis (Durham et al., 2023). Death, organ damage, and intellectual incapacity can all be avoided with early treatment (Durham et al., 2023).</p>
<b>Hearing Screen</b>	<p>Neonates are exposed to voices and noises in their surroundings from birth, which marks the beginning of language development (Durham et al., 2023). Parents have the chance to look for solutions that promote language development when hearing loss is detected early (Durham et al., 2023). This screening test does not reveal the kind or severity of hearing impairment; instead, it uses physiological markers rather than behavioral reactions (Durham et al., 2023). When the infant is calm or sleeping, the test must be performed in a quiet environment (Durham et al., 2023). After a month, newborns who don't pass the test are rescreened (Durham et al., 2023). For newborns who do not pass the second screening, diagnostic testing is advised (Durham et al., 2023).</p>
<b>Newborn Cardiac Screen</b>	<p>A straightforward pulse oximetry test called CCHD screening compares the overall oxygenation levels and the preductal and postductal oxygen saturation levels (Durham et al., 2023). It is currently advised that all newborns have this screening after 24 hours of birth, when the DA is normally closed (Durham et al., 2023). The preductal right hand and both feet are used to get a pulse oximetry reading. (Durham et al., 2023). When oxygen saturation values in both extremities are 95% or</p>

	higher and the difference between the preductal and postductal measurements is 3% or less, the test is considered "passing" (Durham et al., 2023).
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1. Identify 3 educational topics that should be discussed with caregivers of the infant. **(6 points)**
  - Safe sleep implementations: The infant should sleep on their back with a firm mattress, no blankets, pillows, toys, stuffed animals, etc. in the crib to prevent unfortunate events like suffocation accidents from occurring (Durham et al., 2023).
  - Feeding patterns: The infant should be fed every 2-3 hours if breastfed or every 3-4 hours if bottle-fed (Durham et al., 2023). This is important to ensure adequate nutrition and hydration for the infant, which can help reduce illness and other preventative issues (Durham et al., 2023).
  - Elimination patterns: On average, the infant should have anywhere between 6-8 diapers per day after the first week of birth (Durham et al., 2023). A few wet diapers can mean that the newborn is dehydrated and is not getting enough fluid intake (Durham et al., 2023).
  
2. Identify 2 potential nursing diagnoses for a newborn patient. **(10 points)**
  1. Ineffective Thermoregulation related to decreased subcutaneous fat, as evidenced by out-of-normal-range temperature readings (Phelps, 2023).
  2. Impaired Gas Exchange related to retained lung fluid as evidenced by decreased oxygen saturation (Phelps, 2023).

**Attach Reference page:**

Durham, R. F., Chapman, L., & Miller, C. S. (2023). *Davis advantage for maternal-newborn nursing: Critical components of nursing care*. F.A. Davis Company.

Phelps, L. L. (2023). *Nursing diagnosis reference manual*. Wolters Kluwer.

**N432 Newborn Worksheet Rubric**

Criteria	40 points	20 points	0 points	Comments
<ul style="list-style-type: none"> <li>▪ <b>Head to toe assessment</b> <ul style="list-style-type: none"> <li>○ Normal findings</li> <li>○ Expected variations</li> </ul> </li> <li>▪ Include in-text citations in APA format.</li> </ul>	<p><b>Includes complete and accurate information on all criteria:</b></p> <ul style="list-style-type: none"> <li>▪ <b>Head to toe assessment</b> <ul style="list-style-type: none"> <li>○ Normal findings</li> <li>○ Expected variations</li> </ul> </li> <li>▪ Include in-text citations in APA format.</li> </ul>	<p><b>Missing 3-4 or incorrect information of the following:</b></p> <ul style="list-style-type: none"> <li>▪ <b>Head to toe assessment</b> <ul style="list-style-type: none"> <li>○ Normal findings</li> <li>○ Expected variations</li> </ul> </li> <li>▪ Include in-text citations in APA format.</li> </ul>	<p><b>Missing 5 or more or incorrect information of the following:</b></p> <ul style="list-style-type: none"> <li>▪ <b>Head to toe assessment</b> <ul style="list-style-type: none"> <li>○ Normal findings</li> <li>○ Expected variations</li> </ul> </li> <li>▪ <b>Contains no in-text citations.</b></li> </ul>	
<b>Criteria</b>	<b>5 points</b>	<b>2.5 points</b>	<b>0 points</b>	<b>Comments</b>

<p><b>Newborn safety/security</b></p> <ul style="list-style-type: none"> <li>▪ Safety measures identified</li> <li>▪ Security measures identified</li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format.</li> </ul>	<p><b>Includes complete and accurate information on all criteria:</b></p> <p><b>Newborn safety/security</b></p> <ul style="list-style-type: none"> <li>▪ Safety measures identified</li> <li>▪ Security measures identified</li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format.</li> </ul>	<p><b>Missing 1 or incorrect information of the following:</b></p> <p><b>Newborn safety/security</b></p> <ul style="list-style-type: none"> <li>▪ Safety measures identified</li> <li>▪ Security measures identified</li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format.</li> </ul>	<p><b>Missing 2 or more or incorrect information of the following:</b></p> <p><b>Newborn safety/security</b></p> <ul style="list-style-type: none"> <li>▪ Safety measures identified</li> <li>▪ Security measures identified</li> <li>▪ Response not written in complete sentences.</li> <li>▪ <b>Contains no in-text citations.</b></li> </ul>	
<b>Criteria</b>	<b>2 points</b>	<b>1 point</b>	<b>0 points</b>	<b>Comments</b>
<p><b>Newborn vitals</b></p> <ul style="list-style-type: none"> <li>▪ Normal range for heart rate</li> <li>▪ Normal range for respiratory rate</li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format.</li> </ul>	<p><b>Includes complete and accurate information on all criteria:</b></p> <p><b>Newborn vitals</b></p> <ul style="list-style-type: none"> <li>▪ Normal range for heart rate</li> <li>▪ Normal range for respiratory rate</li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format.</li> </ul>	<p><b>Missing 1 or incorrect information of the following:</b></p> <p><b>Newborn vitals</b></p> <ul style="list-style-type: none"> <li>▪ Normal range for heart rate</li> <li>▪ Normal range for respiratory rate</li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format.</li> </ul>	<p><b>Missing 2 or more or incorrect information of the following:</b></p> <p><b>Newborn vitals</b></p> <ul style="list-style-type: none"> <li>▪ Normal range for heart rate</li> <li>▪ Normal range for respiratory rate</li> <li>▪ Response not written in complete sentences.</li> <li>▪ <b>Contains no in-text citations.</b></li> </ul>	
<b>Criteria</b>	<b>2 points</b>	<b>1 points</b>	<b>0 points</b>	

<p><b>Newborn</b></p> <ul style="list-style-type: none"> <li>▪ Normal range for temperature</li> <li>▪ Method for taking infants temperature</li> <li>▪ Why is this method used for temperature?</li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format.</li> </ul>	<p><b>Includes complete and accurate information on all criteria:</b></p> <ul style="list-style-type: none"> <li>▪ Primary cause identified.</li> <li>▪ Interventions listed to alleviate this issue.</li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format</li> </ul>	<p><b>Missing 1 or incorrect information of the following:</b></p> <ul style="list-style-type: none"> <li>▪ Primary cause identified.</li> <li>▪ Interventions listed to alleviate this issue.</li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format</li> </ul>	<p><b>Missing 2 or more or incorrect information of the following:</b></p> <ul style="list-style-type: none"> <li>▪ Primary cause identified.</li> <li>▪ Interventions listed to alleviate this issue.</li> <li>▪ Response not written in complete sentences.</li> <li>▪ <b>Contains no in-text citations.</b></li> </ul>	
<b>Criteria</b>	<b>10 points</b>	<b>5 points</b>	<b>0 points</b>	<b>Comments</b>

Medications	Includes complete and accurate information on all criteria: Medications	Missing 3 or incorrect information of the following: Medications	Missing 4 or more or incorrect information of the following: Medications
<ul style="list-style-type: none"> <li>▪ Vitamin K <ul style="list-style-type: none"> <li>○ Dosage</li> <li>○ Administration site</li> <li>○ Possible side effects</li> <li>○ Why is this administered?</li> </ul> </li> <li>▪ Erythromycin <ul style="list-style-type: none"> <li>○ Dosage</li> <li>○ Administration site</li> <li>○ Possible side effects</li> <li>○ Why is this administered?</li> </ul> </li> <li>▪ Hepatitis B <ul style="list-style-type: none"> <li>○ Dosage</li> <li>○ Administration site</li> <li>○ Possible side effects</li> <li>○ Why is this administered?</li> </ul> </li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format</li> </ul>	<ul style="list-style-type: none"> <li>▪ Vitamin K <ul style="list-style-type: none"> <li>○ Dosage</li> <li>○ Administration site</li> <li>○ Possible side effects</li> <li>○ Why is this administered?</li> </ul> </li> <li>▪ Erythromycin <ul style="list-style-type: none"> <li>○ Dosage</li> <li>○ Administration site</li> <li>○ Possible side effects</li> <li>○ Why is this administered?</li> </ul> </li> <li>▪ Hepatitis B <ul style="list-style-type: none"> <li>○ Dosage</li> <li>○ Administration site</li> <li>○ Possible side effects</li> <li>○ Why is this administered?</li> </ul> </li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text</li> </ul>	<ul style="list-style-type: none"> <li>▪ Vitamin K <ul style="list-style-type: none"> <li>○ Dosage</li> <li>○ Administration site</li> <li>○ Possible side effects</li> <li>○ Why is this administered?</li> </ul> </li> <li>▪ Erythromycin <ul style="list-style-type: none"> <li>○ Dosage</li> <li>○ Administration site</li> <li>○ Possible side effects</li> <li>○ Why is this administered?</li> </ul> </li> <li>▪ Hepatitis B <ul style="list-style-type: none"> <li>○ Dosage</li> <li>○ Administration site</li> <li>○ Possible side effects</li> <li>○ Why is this administered?</li> </ul> </li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text</li> </ul>	<ul style="list-style-type: none"> <li>▪ Vitamin K <ul style="list-style-type: none"> <li>○ Dosage</li> <li>○ Administration site</li> <li>○ Possible side effects</li> <li>○ Why is this administered?</li> </ul> </li> <li>▪ Erythromycin <ul style="list-style-type: none"> <li>○ Dosage</li> <li>○ Administration site</li> <li>○ Possible side effects</li> <li>○ Why is this administered?</li> </ul> </li> <li>▪ Hepatitis B <ul style="list-style-type: none"> <li>○ Dosage</li> <li>○ Administration site</li> <li>○ Possible side effects</li> <li>○ Why is this administered?</li> </ul> </li> <li>▪ Response not written in complete sentences.</li> </ul>

	citations in APA format	citations in APA format	▪ Contains no in-text citations.	
Criteria	20 points	10 points	0 points	Comments
<ul style="list-style-type: none"> <li>▪ <b>Lab tests</b> <ul style="list-style-type: none"> <li>○ Blood glucose levels <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Blood type and Rh factor <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Coombs test <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Bilirubin levels <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Newborn screen <ul style="list-style-type: none"> <li>▪ Why is this test</li> </ul> </li> </ul> </li> </ul>	<p><b>Includes complete and accurate information on all criteria:</b></p> <ul style="list-style-type: none"> <li>▪ <b>Lab tests</b> <ul style="list-style-type: none"> <li>○ Blood glucose levels <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Blood type and Rh factor <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Coombs test <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Bilirubin levels <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Newborn screen</li> </ul> </li> </ul>	<p><b>Missing 1 or incorrect information of the following:</b></p> <ul style="list-style-type: none"> <li>▪ <b>Lab tests</b> <ul style="list-style-type: none"> <li>○ Blood glucose levels <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Blood type and Rh factor <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Coombs test <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Bilirubin levels <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Newborn screen</li> </ul> </li> </ul>	<p><b>Missing 2 or more or incorrect information of the following:</b></p> <ul style="list-style-type: none"> <li>▪ <b>Lab tests</b> <ul style="list-style-type: none"> <li>○ Blood glucose levels <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Blood type and Rh factor <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Coombs test <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Bilirubin levels <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>○ Newborn screen</li> </ul> </li> </ul>	

<ul style="list-style-type: none"> <li>ordered ?</li> <li>o Hearing screen <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>o Newborn cardiac screen <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format</li> </ul>	<ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> <li>o Hearing screen <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>o Newborn cardiac screen <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format</li> </ul>	<ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> <li>o Hearing screen <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>o Newborn cardiac screen <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format</li> </ul>	<ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> <li>o Hearing screen <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>o Newborn cardiac screen <ul style="list-style-type: none"> <li>▪ Why is this test ordered ?</li> </ul> </li> <li>▪ Response written not in complete sentences.</li> <li>▪ <b>Contains no in-text citations.</b></li> </ul>	
Criteria	6 points	3 points	0 points	Comments
<b>Education</b> <ul style="list-style-type: none"> <li>▪ 3 topics that should be covered with caregivers regarding the infant.</li> <li>▪ Response written in complete sentences.</li> <li>▪ Include in-text citations in APA format.</li> </ul>	<b>Includes complete and accurate information on all criteria:</b> <b>Education</b> <ul style="list-style-type: none"> <li>▪ 3 topics that should be covered with the caregiver regarding the infant.</li> <li>▪ Response written in complete sentences.</li> </ul>	<b>Missing 1 or incorrect information of the following:</b> <b>Education</b> <ul style="list-style-type: none"> <li>▪ 3 topics that should be covered with the caregiver regarding the infant.</li> <li>▪ Response written in complete sentences.</li> </ul>	<b>Missing 2 or more or incorrect information of the following:</b> <b>Education</b> <ul style="list-style-type: none"> <li>▪ 3 topics that should be covered with the caregiver regarding the infant.</li> <li>▪ Responses not written in complete sentences.</li> </ul>	

	<ul style="list-style-type: none"> <li>Include in-text citations in APA format.</li> </ul>	<ul style="list-style-type: none"> <li>Include in-text citations in APA format.</li> </ul>	<ul style="list-style-type: none"> <li><b>Contains no in-text citations.</b></li> </ul>	
<b>Criteria</b>	<b>10 points</b>	<b>5 points</b>	<b>0 points</b>	<b>Comments</b>
<b>Nursing diagnosis</b> <ul style="list-style-type: none"> <li>2 complete diagnoses identified that include related to and evidence by</li> </ul>	<b>Includes complete and accurate information on all criteria:</b> <b>Nursing diagnosis</b> <ul style="list-style-type: none"> <li>2 complete diagnoses identified that include related to and as evidenced by</li> </ul>	<b>Missing 1-2 or incorrect information of the following:</b> <b>Nursing diagnosis</b> <ul style="list-style-type: none"> <li>2 complete diagnoses identified that include related to and as evidenced by</li> </ul>	<b>Missing 3 or more or incorrect information of the following:</b> <b>Nursing diagnosis</b> <ul style="list-style-type: none"> <li>2 complete diagnoses identified that include related to and as evidenced by</li> </ul>	
<b>Criteria</b>	<b>5 points</b>	<b>2.5 points</b>	<b>0 points</b>	<b>Comments</b>
<u><b>APA Format</b></u> <ul style="list-style-type: none"> <li>The student used appropriate APA in-text citations and listed all appropriate references in APA format.</li> <li>Source(s) utilized should be 5 or less years old. <ul style="list-style-type: none"> <li>Source(s) greater than 5 years old will not be accepted.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>APA format was completed and appropriate.</li> <li>Grammar, spelling, and overall writing style were professional and without errors.</li> </ul>	<ul style="list-style-type: none"> <li>APA format was used but not correct with 1-2 errors noted.</li> <li>1-2 grammar, spelling, or overall poor writing style was used.</li> <li>Content was difficult to understand.</li> </ul>	<ul style="list-style-type: none"> <li>No APA format or 3 or more errors noted.</li> <li>Source(s) utilized were greater than 5 years old.</li> <li>Grammar, spelling, or writing style did not demonstrate collegiate level writing with 3 or more errors noted</li> </ul>	

▪ Professional writing style, grammar, and spelling was used in all narrative sections.				
<b>Instructor comments:</b>				<b>TOTAL /100</b>