

Learning Objectives	
1. Recall identifying features of poisonous mushrooms	
2. Describe toxicities of poisonous mushrooms	
3. Utilize mushroom foraging safety tips	

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Disclaimer

This is not an all-inclusive list of poisonous mushrooms

If you need help identifying a mushroom, it is best to consult a mycologist



What is a Mushroom?

- Mushroom is the fruiting body of a fungus \rightarrow reproductive structure
- Fungi lack chlorophyll, making them unable to photosynthesize
- Fungi obtain food by using enzymes to break down organic matter



- < 0.25% of reported human exposures
- Majority of mushroom ingestions are not lethal
- > 100,000 mushroom species exist; < 0.1% are known to be toxic







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Scientific name	Amanita phalloides	
Identifying features	White gills Ring/veil Cup (underground)	
Toxin(s)	Cyclopeptide	
Symptoms if ingested	 Nausea, vomiting, diarrhea (early) Liver failure, kidney failure (late) 	
Symptom onset	 Early symptoms: 5-24 hours Late symptoms: 2-6 days 	
Symptom duration	Initial symptoms resolve for 12-26 hours	Press and





		False Morel	
	Scientific name	Gyromitra esculenta	
	Identifying features	Brown to reddish brownBrain-like	- Seattle
	Toxin(s)	Gyromitrin	
	Symptoms if ingested	 Nausea, vomiting, abdominal pain Headache, weakness, cramping Rare: seizures, delirium 	
	Symptom onset	5 to 10 hours	
ж	Symptom duration	2 to 7 days	
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False more	el vs. True m	norel



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		Magic Mush	rooms
	Scientific name	Psilocybin cubensis	
	ldentifying features	Habitat: small groups on dung of herbivores (nitrogen rich soil) Color: whits/hp/ale yellowish brown, darkest in center, bluish on margin Cap: bell-shaped → flat Gills: notched, close, white/gray Spores: purple-brown	
	Toxin(s)	$Psilocybin \to psilocin$	A MARKEN AND A MARK
*	Symptoms if ingested	 Hallucinations, visual distortions, mydriasis, ataxia, tachycardia, tremor 	- TACPASS D.S.
_	Symptom onset	1 to 2 hours	
	Symptom duration	6 to 12 hours	<u> </u>





Foraging Dos and Don'ts

DOs

- Use caution when collecting mushrooms in unfamiliar territories
- ize look-a-likes ng two baskets, one for mushrooms you definitely know are safe, one for
- those you are unsure of



- Don't harvest in toxic areas
- Don't harvest rare or exotic mushrooms •
- Wear gloves!

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Learning Objectives

3. Utilize plant safety tips

- 1. Recall identifying features of poisonous plants
- 2. Describe toxicities of poisonous plants



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K		Foxglove	
	Scientific name	Digitalis purpurea	
	Identifying features	 Downward, bell-shaped, pink-purple flowers Up to 5 feet in height 	
	Toxin(s)	Digitoxin, digoxin	
	Organ affected	Heart	A State A
	Symptoms if ingested	 Vomiting, headache Abnormal heart rhythms High or low heart rate 	
	Symptom onset	Hours	
	Symptom duration	Hours to days	





	Castor beans	8
Scientific name	Ricinus communis	Sandar
Identifying features	Annual evergreen 1-5m tall Red to green or purple stems Flowers: 5-parted, bloom Aug-Nov Fruit: Red, green, or purple spiny, capsules containing 3 seeds	
Toxin(s)	Ricin	
Organ affected	Stomach, heart, liver, kidney	
Symptoms if ingested	Nausea Low blood pressure Liver and kidney dysfunction	000





	Pokewe	eed
Scientific name	Phytolacca americana	7
Identifying features	Large rootstock 2-10 feet tall by 2-3 feet wide Greenish-white flower	
Toxin(s)	Phytolaccotoxin	
Organ affected	Stomach	
Symptoms if ingested	Nausea Vomiting Diarrhea Abdominal cramps	
Symptom onset	30 minutes to 6 hours	





